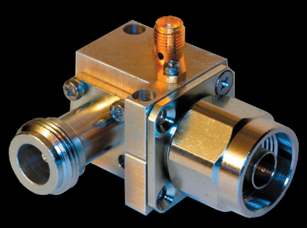
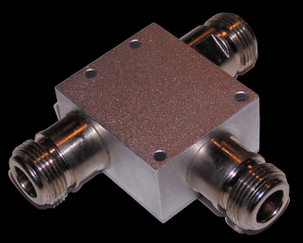
RESPONSE MICROWAVE, INC.

CONNECTIVITY & COMPONENT SOLUTIONS FOR RF/MICROWAVE/MILLIMETERWAVE/LIGHT





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CONTENTS

Response Microwave, Inc. ..... WE RESPOND

WHO WE ARE

Founded in April of 2002, Response Microwave, Inc. is the compilation of a multi-disciplined team of professionals with over 100 years of relevant experience in the RF/Microwave market. Our purpose for being, and the basis for our name, is to listen to, and focus on the customer, and respond to your needs. We were created to apply our expertise towards developing application specific solutions that service your exact requirements at any given moment and for any quantity required.

Through a diverse base of competencies and efficiencies, the company has swiftly built a reputation for flexible and responsive service resulting in a world-class list of customers in the medical, telecom, military, industrial and energy markets.

Versed in the elements of procurement, engineering, materials control, manufacturing, sales and marketing, we are a value added organization that specializes in the sourcing and custom designing of passive control components and connectivity solutions from DC to 60GHz. We offer a standard line of unique twin-conductor couplers and hybrids used in power compensation networks and antenna distribution feeds. We will also welcome the opportunity to work with your design team to evolve custom solutions to satisfy your specific infrastructure needs. Our experienced design team is dedicated to satisfying your demands by creating the most economically and technologically sound solution for your application. We will work very closely and confidentially with your project team in order to accurately understand and address your program needs.

Our products are suitable for diverse market applications within the broad military, security, telecom, energy and medical segments with specific projects within avionics, theft detection, power amplification, imaging, and telecommunications niches.

To learn more about our growing company, our world-class support structure and our focused product solutions, please visit our web site or contact us directly. Although we are a young company, our experience is proven and diverse, so we welcome the opportunity and ask you to present us with a chance to respond to your needs.

MISSION STATEMENT

Our goal is to provide our customer base with the highest level of service attainable based on a foundation of honesty and integrity with the intent of building long-standing relationships. We will apply the utmost professionalism in an effort to become a valued resource for innovative technical solutions in support of customer requirements.

QUALITY STATEMENT

We place our highest values on service and product quality as these elements form the cornerstone of our corporation. Our quality assurance manual follows the ISO guidelines and we are working towards certification. All product offered is RoHS and REACH certified and, in most cases, designed in accordance with applicable MIL standards. Applicable TUV, ETSI, ANSI and/or UL certification is in place as required.

CORPORATE FACILITIES, CAPABILITIES & PRODUCT SOLUTIONS

Our offices are conveniently located in the technology belt west of Boston, Massachusetts and are easily accessible. Here we have access to world-class facilities certified for prototype through production quantity manufacturing and test.

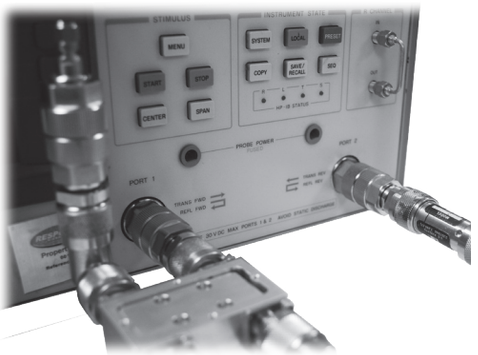
Precision stripping equipment and custom bending and forming mandrels are employed for use in providing unique solutions with our twin-line hybrid and coupler products. Mechanical and electrical design and simulation software is utilized to provide you with the optimal solution for your requirements.

OUR COMPETENCIES INCLUDE:

- Sales & Customer Support
  - Contracted national field sales network
  - Focused customer/applications support
- Engineering Support
  - Consulting design/application capability
  - Virtual component engineering services
- Procurement Support
  - Material & Service acquisition
- Manufacturing Support
  - Certified global supplier base
- Test Support
  - Certified sub-contracted facilities

OUR CAPABILITIES INCLUDE:

- Bending & Forming of
  - HYBRIDLINE & COUPLERLINE drop-in couplers
  - Custom tooling & fixturing
  - Design solutions
- Pre-cut Trimming of
  - HYBRIDLINE & COUPLERLINE drop-in couplers
  - Access to proprietary laser techniques
  - Precision manual process
- Cable Assembling
  - Phase matching
  - Forming
  - Labeling
  - Electrical test
  - Armour
- Product Manufacturing
  - Equipment
    - Automated drawing lines
    - Automatic bending machines
    - Automatic stripping machines
    - Thermal chambers (-40 to +150 C)
    - Heat chamber (to +300 C)
    - Tensile testers
    - LCR meters
    - Laser scan
    - Network analyzers
  - Processes
    - Assembly
    - Electrical test
    - Mechanical test
    - Environmental test
    - Quality assurance



OUR PRODUCT SOLUTIONS INCLUDE:

- Drop-in Hybrids & Couplers
- Connectorized Hybrids & Couplers
- Combiners & Dividers
- Filters & Diplexers
- Isolators & Circulators
- Coaxial & Optical Attenuators
- Coaxial & Optical Adaptors
- Rotary Joints
- Terminations
- DC Blocks & Bias Tees
- Surge Protection
- Drop-in & Connectorized Delay Lines/Phase Shifters
- Coaxial, Power, Optical, Multipin Connectors
- Cable & Cable Assemblies
- Optical Laser Diodes
- Custom Assemblies

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RESPONSE MICROWAVE, INC. RoHS COMPLIANT PRODUCTS

ORDERING INFORMATION

HOW TO ORDER

Orders may be placed directly and should be addressed as follows:

Response Microwave, Inc.
94 Jackson Rd. Suite 110, Devens, MA 01434, USA
Phone: (978) 772-3767 Fax: (978) 772-3768
Email: info@responsemicrowave.com

Code Identification Number: (CAGE) -3DAV8
TIN/EIN Number: 43-1957139
DUNS: 039781468

Orders received by fax, e-mail or telephone will be accepted and initially processed pending receipt of confirming purchase order. Receipt of confirming purchase order is required within 5 working days.

MINIMUM ORDER VALUE

Due to costs associated with processing orders, RMI has a $150.00 minimum order value policy on the purchase of all standard items.

TERMS OF PAYMENT

If buyers credit is satisfactory to the seller, all invoices are due 30 days from date of invoice. Interest may be charged at a rate of 1.5% per month, thereafter. No discounts are authorized. A minimum of 3 trade references and bank information is required in order to establish an open account. If credit is not established, terms will be COD, CIA , or credit card. All customs and bank charges incurred outside the United States will be the responsibility of the buyer. Each shipment shall be considered a separate and independent transaction, and payment therefore shall be made accordingly. We accept Mastercard, VISA, American Express, and Discover Card.

PRICES

Prices for all products are subject to change without notice, and formal quotations are valid for a period of 30 days only unless noted otherwise. For this reason, it is best to confirm required prices at time of order placement. Prices quoted do not include cost for shipping, federal, state, or local excise taxes, export costs, special packaging or any compliance testing, unless specifically requested or identified. We do not collect/remit sales tax and any that may be due is the responsibility of the Buyer.

SHIPPING TERMS

Unless specified otherwise, all sales are considered to be made Ex-works Devens MA, USA and title passes to the Buyer upon delivery to the carrier. Damage in shipment is handled by the Buyer directly with the carrier and we do not insure shipments. Shipments are made in accordance with Buyer's specific instruction regarding method and routing. If your order does not indicate a carrier, RMI will select one but cannot be held responsible for selecting the fastest or most economical method. Unless otherwise agreed upon at order placement, Response Microwave, Inc. reserves the right to make partial shipments payable in accordance with our standard terms. Shipment schedules are approximate and we assume no responsibility for delays beyond our control.

ORDERS, CHANGE ORDERS & CANCELLATIONS

Acceptance of Buyer's order is expressly conditional on Seller's Terms and Conditions of sale set forth herein, which shall supercede and take precedence over any conflicting or contrary terms contained in Buyer's purchase order.
Change orders are considered to be in effect after both the Buyer and Response Microwave, Inc. have reached a mutual agreement as to the effect of the change on price, delivery, or other conditions of the order.
Orders shall be considered non-cancelable and non-returnable unless Response Microwave, Inc. agrees in writing to extend restocking charges. Cancellation of an order can be made only with the written consent of Response Microwave, Inc. and upon such terms as will satisfy all costs incurred by Response Microwave, Inc. and its proportionate profit in work completed. Response Microwave, Inc. will stop work promptly upon receipt of your written cancellation intent.

WARRANTY

All products are covered by a LIMITED WARRANTY for a period of one (1) year from the date of shipment. Customer must notify seller in writing within one (1) year from date of shipment of any defective product. An approved Return Materials Authorization (RMA) number must first be obtained from seller prior to the return of any merchandise for inspection under warranty. Shipping charges for all materials returned under this Limited Warranty are to be prepaid by the Buyer. This warranty is limited to the original purchaser. Response Microwave, Inc. sole liability, and Buyer's sole remedy, arising out of any sale of products to Buyer is expressly limited to either (1) Credit for the purchase price paid by Buyer for such products (without interest), or (2) Repair and/or replacement of such products found to be defective after inspection by seller, and such remedies shall be exclusive and in lieu of all others. This warranty is in lieu of any and all other warranties, whether oral, written, expressed, implied or statutory. Further, no warranty will apply if the Product has been subject to misuse, neglect, accident or modification

COUPLERLINE™ & HYBRIDLINE™

FEATURES

- Cut for frequency coverage between DC-12GHz
- Small surface volume
- Multiple coupling values
- Bulk, finished, or connectorized
- High performance vs. price ratio
- Custom shaping/forming available

HYBRIDLINE™ 3dB narrowband 90 degree hybrid couplers (for <30% bandwidths)

RMCL-	160/3	240/3	358/3	635/3	962/3
Coupling (dB)	3.0	3.0	3.0	3.0	3.0
Unbalance (dB)	+/-0.3	+/-0.3	+/-0.3	+/-0.3	+/-0.3
Phase Error (°)	+/-1	+/-1	+/-1	+/-1	+/-1
Ins. Loss (dB max)	0.3	0.3	0.3	0.3	0.3
Isolation (dB min)	20	20	20	20	20
VSWR (max)	1.20	1.20	1.20	1.20	1.20
Power: W CW @ 2GHz	60	100	200	500	1400
Jacket Diameter (“)	0.063	0.095	0.141	0.250	0.380
Lead Diameter (“)	0.007	0.010	0.016	0.030	0.047
Velocity Factor (%)	63	63	64	70	70
CL Bend Radius (“)	0.10	0.15	0.30	n/a	n/a

HYBRIDLINE™ 3dB broadband 90 degree hybrid couplers (for >30% bandwidths)

RMCL-	240/2.8	358/2.8	635/2.8
Coupling (dB)	2.8	2.8	2.8
Unbalance (dB)	+/-0.3	+/-0.3	+/-0.3
Phase Error (°)	+/-1	+/-1	+/-1
Ins. Loss (dB max)	0.3	0.3	0.3
Isolation (dB min)	20	20	20
VSWR (max)	1.20	1.20	1.20
Power: W CW @ 2GHz	100	200	500
Jacket Diameter (“)	0.095	0.141	0.250
Lead Diameter (“)	0.011	0.016	0.030
Velocity Factor (%)	63	64	70
CL Bend Radius (“)	0.15	0.30	n/a

MATERIALS

- Inner Conductors - Silver plated copper clad steel
- Outer shield - Oxygen-free copper (optional solder-plate)
- Primary Insulation - Polymide
- Dielectric - Polytetraflouroethylene (PTFE)

COUPLERLINE™ & HYBRIDLINE™

COUPLERLINE™ medium power directional couplers

RMCL-	240/4.8	240/6	240/10	240/15	240/20	240/25	240/30
Coupling (dB)	4.77	6.0	10.0	15.0	20.0	25.0	30.0
Tolerance (dB)	+/-0.3	+/-0.3	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-0.5
Ins. Loss (dB max)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Directivity (dB min)	20	20	20	20	20	20	20
VSWR (max)	1.20	1.15	1.15	1.15	1.15	1.15	1.15
Power (W CW)	100	100	100	100	100	100	100
Jacket Diameter (“)	0.091	0.091	0.091	0.095	0.095	0.099	0.095
Lead Diameter (“)	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Velocity Factor (%)	65	68	68	68	68	68	68
CL Bend Radius (“)	n/a	n/a	n/a	n/a	n/a	n/a	n/a

COUPLERLINE™ high power directional couplers

RMCL-	358/4.8	358/6	358/10	358/15	358/20	358/25	358/30
Coupling (dB)	4.77	6.0	10.0	15.0	20.0	25.0	30.0
Tolerance (dB)	+/-0.3	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-0.5	+/-0.5
Ins. Loss (dB max)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Directivity (dB min)	20	20	20	20	20	20	20
VSWR (max)	1.20	1.15	1.15	1.15	1.15	1.15	1.15
Power (W CW)	200	200	200	200	200	200	200
Diameter (“)	0.134	0.135	0.138	0.138	0.142	0.138	0.134
Lead Diameter	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Velocity Factor	68	70	70	70	70	70	70
CL Bend Radius (“)	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

- Insertion loss does not include coupling loss
- Ask for special installation instructions

MATERIALS

- Inner Conductors - Silver plated copper clad steel
- Outer shield - Oxygen-free copper (optional solder-plate
- Primary Insulation - Polymide
- Dielectric - Polytetraflouroethylene (PTFE)

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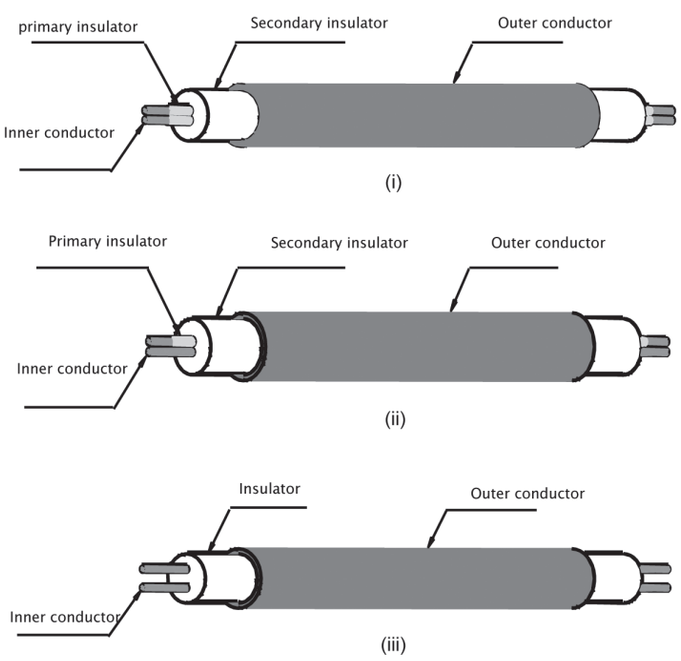
COUPLERLINE™ & HYBRIDLINE™

The RMCL series is a highly versatile line of drop-in couplers and hybrids optimized for electrical performance between 50 to 12000 MHz. This product family is segregated into two distinct categories as follows; HYBRIDLINE – refers to drop-in 3dB, 90 degree quadrature hybrid; and COUPLERLINE – refers to drop-in 4.77 to 52dB directional coupler. In the simplest form, the product architecture consists of a pair of wire center conductors embedded in a teflon dielectric and shielded by a drawn outer conductor. This outer conductor is made from seamless oxygen-free copper, which attains the physical attributes of semi-rigid coaxial cable. The series was developed to provide component and system design engineers with the flexibility to achieve a broadband directional coupler, hybrid or other circuit elements by simply cutting to an appropriate length correlated to operating frequency. To further support design flexibility, all RMCL product families are available in bulk form, pre-cut to a specific length, pre-formed to a specific shape or with coaxial connectors.

There are three mechanical configurations used in order to accommodate varied coupling values. In the instance of tight coupling, a pair of inner conductors has to be set very close with parallel and constant distance. To obtain that status, one or both inner conductors are insulated with polyimide and continuously covered by PTFE (See diagrams i, ii of FIGURE 1). This is applicable to the RMCL160, 240, 358, 635 & 962 HYBRIDLINE families. In the instance of looser coupled versions, distance of the two inner conductors is wider as diagram iii of FIGURE 1 shows. This is applicable to the RMCL240 and 358 COUPLERLINE series.

Our products are suitable for diverse market applications within the broad military, security, commercial and medical segments with specific projects within avionics, theft detection, power amplification and telecommunications niches.



[FIGURE 1]

STANDARD LENGTHS & TOLERANCES

Standard length of all HYBRIDLINE 3dB hybrid bulk material is 1 meter. The RMCL240 and 358 COUPLERLINE families are not available in bulk form, but rather only pre-cut to a specific length. Standard tolerances of all pre-cut lengths is as follows;

LENGTH [cm]	LESS THAN 5	5 - 20	20 - 60	60 - 200
Tolerance [mm]	+/- 0.2	+/- 0.25	+/- 0.3	+/- 0.5

COUPLERLINE™ & HYBRIDLINE™

FUNCTION

Function of a quarter wavelength frequency L0 is shown in FIGURE 2 below. The RMCL series is fundamentally a 4 port circuit with partially coupled dual center conductors; A-B and C-D. With an input signal applied to port A, according to specified coupling value, the proper amount of signal is conveyed to ports B and C with no output on port D. This is the ideal performance of a directional coupler. There is a 90 degree phase differential between input port A and output port B, and equal phase on ports A and C. Defining output power on each port as P_B, P_C, P_D and input power as P_A, the calculation is as follows.

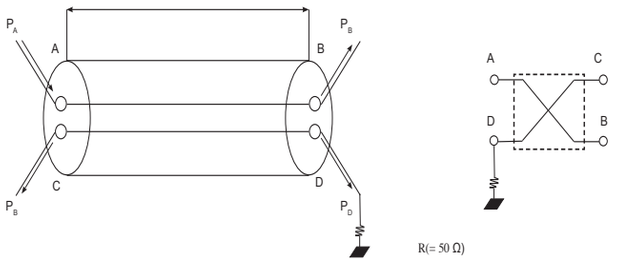
1. Through ; L [dB]
L [dB] = 10 log $\frac{P_A}{P_B}$

2. Coupling ; C [dB]
C [dB] = 10 log $\frac{P_A}{P_C}$

3. Isolation ; I [dB]
I [dB] = 10 log $\frac{P_A}{P_D}$

4. Directivity ; D [dB]
D [dB] = 10 log $\frac{P_C}{P_D}$

[FIGURE 2]



In the case of 3dB coupling (hybrid), output power of P_B and P_C is about the same and there is no output at P_D .

COUPLING CURVES

FIGURE 3 represents typical coupling curves. The vertical axis shows relative power output of coupling and through paths. 90° at horizontal axis indicates
frequency of quarter wavelength. Curves are calculated by formulas 5 & 6 noted below.

5. Coupling power output

$$P_C = \frac{P_o \sin^2 \theta}{1 - (1 - \sin^2 \theta) P_o}$$

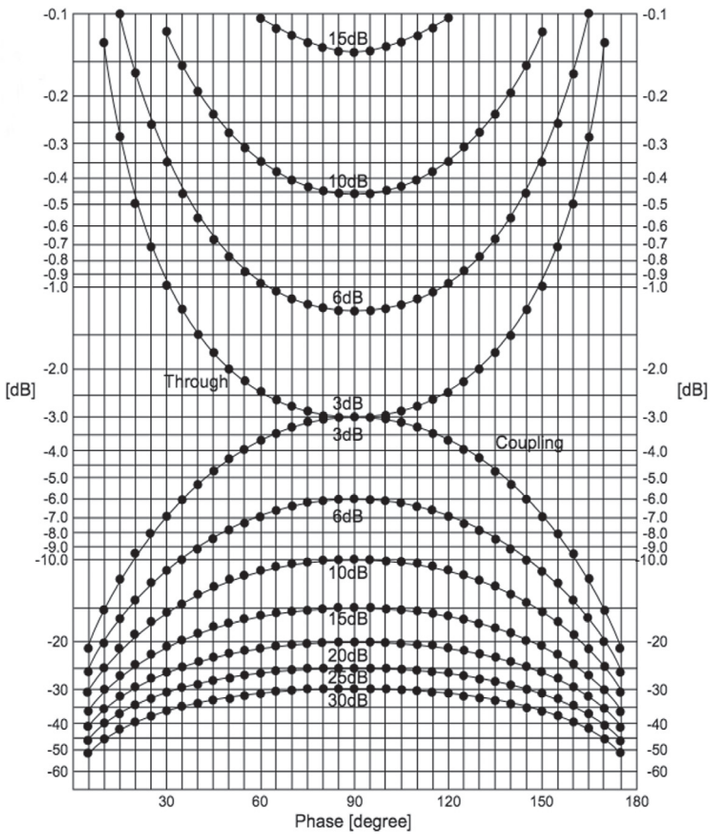
θ ; Phase

P_o ; Coupling power output at θ = 90°

6. Through power output

P_T = 1- P_C

[FIGURE 3]



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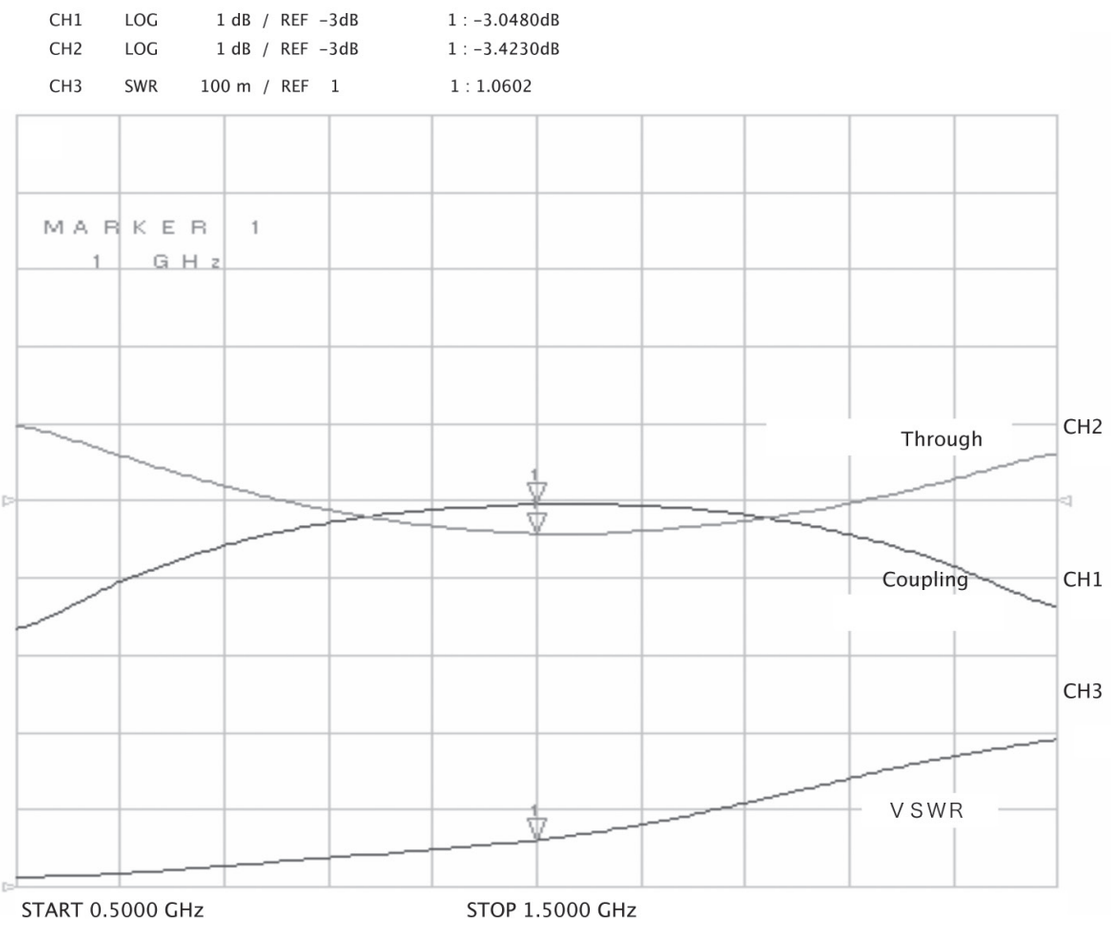
COUPLERLINE™ & HYBRIDLINE™

COUPLING CHART

Insertion loss is defined as input power minus total output power and is typically less than 0.3dB in the RMCL series and can be as low as 0.1dB. In the case of standard 3dB HYBRIDLINE material, the coupling range is –3±0.3dB and if the coupling becomes stronger, say –2.8dB, then through output at the middle of the band becomes –3.28dB. As FIGURE 4 indicates, coupling output and through output cross at the center of the operating frequency range.

FIGURE 4 shows example properties of the 3dB HYBRIDLINE family.

[FIGURE 4]



COUPLERLINE™ & HYBRIDLINE™

PHASE

As FIGURE 5 (i) below represents, defining phase at port A as θ, phase difference at port B becomes 90° θ - 90°, coupling output at port C becomes the same as port A θ. Based on this, the phase at each port on FIGURE 5 (ii) will be as follows;

[FIGURE 5] (i) (ii)

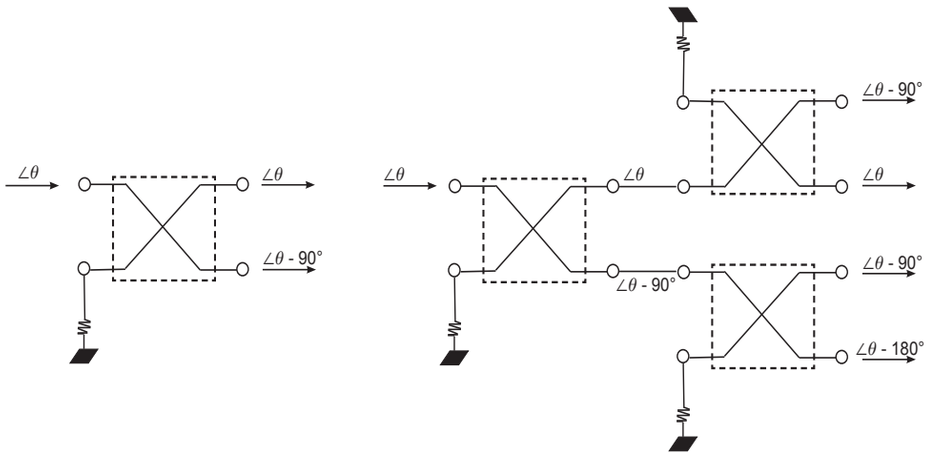
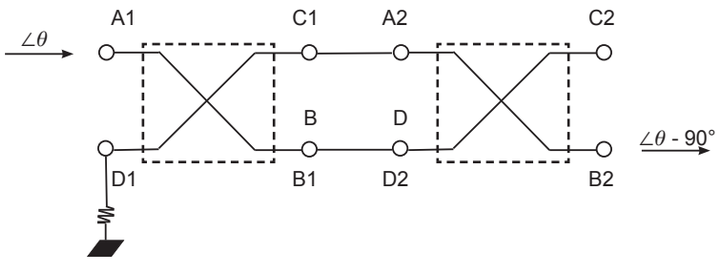


FIGURE 6 shows connection of two 3dB couplers. Around the center frequency of this configuration, input signals offset each other at port C2 by coupling output signal of A1 C1 C2 and signal of A1 B1 C2, these 2 signals are opposite phase. On the other hand, a signal from A2 and coupling output signal from D2 enhance the phase at B2 due to the same phase of θ - 90°.

[FIGURE 6]



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COUPLERLINE™ & HYBRIDLINE™

APPLICATIONS

HYBRIDLINE and COUPLERLINE material can be used to function in numerous applications including the following examples;

- 3dB hybrid or coupler
- 4.77dB to 52dB directional coupler
- Power divider/combiner
- Single balanced mixer
- Diplexer
- Power monitor

For a simple diplexer, two 3dB hybrids are used as shown FIGURE 6. To separate the 1GHz from 50MHz signal, if both signals are fed into port A1, the 1GHz signal would reach port B2 and the 50MHz signal would reach port C2.

When a specific coupling value other than our standard value is required, the closest standard COUPLERLINE can be used for this purpose by setting the center frequency higher to make desired coupling the target point on the standard coupling curves.

A 3-way power divider can be achieved when a 4.8dB coupler and 3dB hybrids are cascaded. The 3 output signals will offer 1dB unbalance over an octave bandwidth. Power loss as a result of phasing and unbalance is less than 0.2dB over the band.

ASSEMBLY

Cutting and stripping

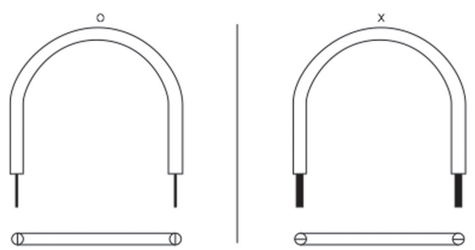
- Overall jacket length is determined by calculation. Please see the length calculator for details.
- HYBRIDLINE is cut and pre-aligned in accordance with RMI standard tolerances, however, customers may need to trim insulation growth which may occur after installation as a result of high temperature soldering. Pre-Conditioning of material is suggested.
- COUPLERLINE family products are only available cut and trimmed by RMI as special tools are required.

BENDING CONSIDERATIONS

Please take the following points into consideration if bending material yourself. We can provide pre-formed parts upon request.

- Bending tool/mandrel should always be used to prevent jacket flats and breaks.
- Bend slowly to avoid stress.
- Stay within minimum specified bend radius for given material.
- Maintain consistent bend/shape and length of 2 center conductors as shown in FIGURE 15.

[FIGURE 15]



COUPLERLINE™ & HYBRIDLINE™

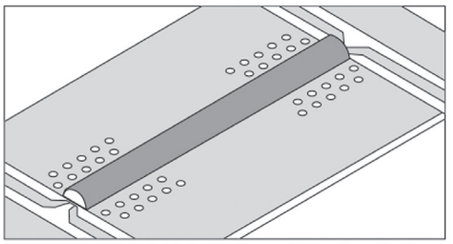
MOUNTING CONSIDERATIONS

To mount HYBRIDLINE or COUPLERLINE on a circuit board, both ends of the jacket should be firmly grounded at its outer edges. If grounding is done even slightly inside the edges, it may affect the electrical performance and heat dissipation. All material is offered with either bare copper or environmentally friendly tin plate jacket finishes.

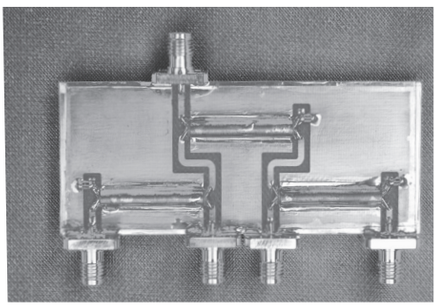
HYBRIDLINE and COUPLERLINE can be mounted to a grounding pad on the surface of the PCB substrate, brought vertically through a hole in the PCB substrate or, ideally, dropped into a groove or slot in the PCB substrate. (see FIGURE 7) In either case, the entire outer jacket must be grounded to the motherboard. It is very important that the jacket is grounded up to each end as failure to do this may result in degraded electrical performance and power dissipation (see FIGURE 8) All material is offered with bare copper or environmentally friendly tin plate jacket finishes.

Lead lengths should be kept as short as possible and leads should be bent away from each other in a V-pattern. (see FIGURES 9 & 10) To reduce coupling unbalance, length of the two bare leads, which typically connect to 50 ohm characteristic impedance lines, should be minimized (ideally zero). Take care to avoid /prevent solder bridges and minimize lead inductance. Conventional solder techniques should be used, however it should be noted that heat, flux and cleaning of the solder joints can cause wicking which may increase center band coupling. Wicking can be prevented by prompt cleaning and/or conformal coating the material ends.

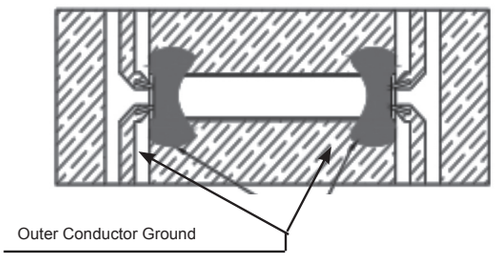
High power applications should consider the use of potting compound around the lead area. Relationship of input to main output can be configured as cross-over or non-crossover based on lead to circuit trace layout (see FIGURES 11 & 12). Examples of proper layout geometries are shown in FIGURES 13 & 14.



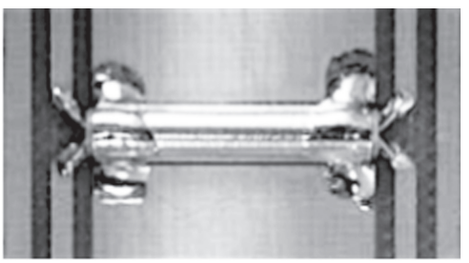
[FIGURE 7]



[FIGURE 8]



[FIGURE 9]



[FIGURE 10]

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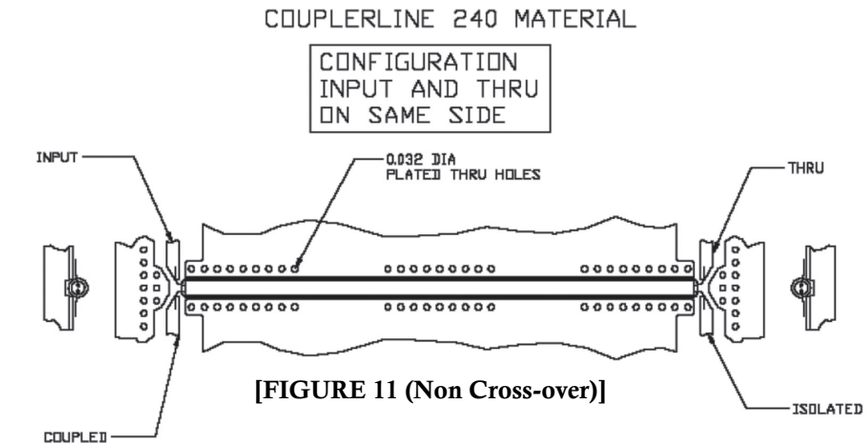
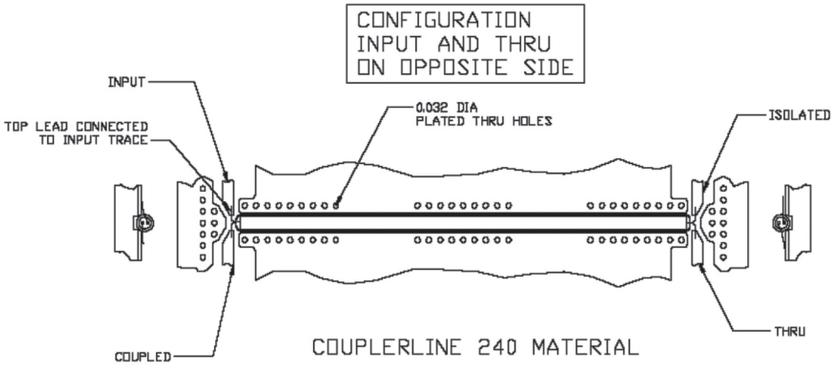
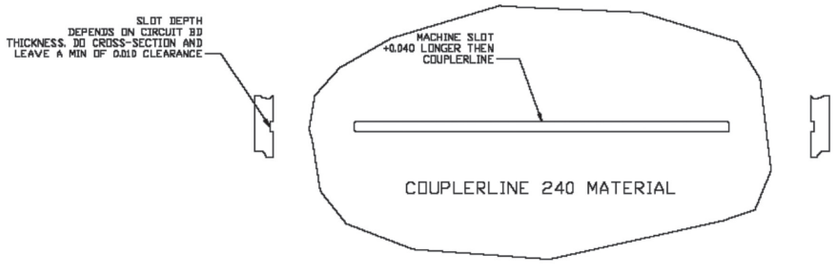
COUPLERLINE™ & HYBRIDLINE™



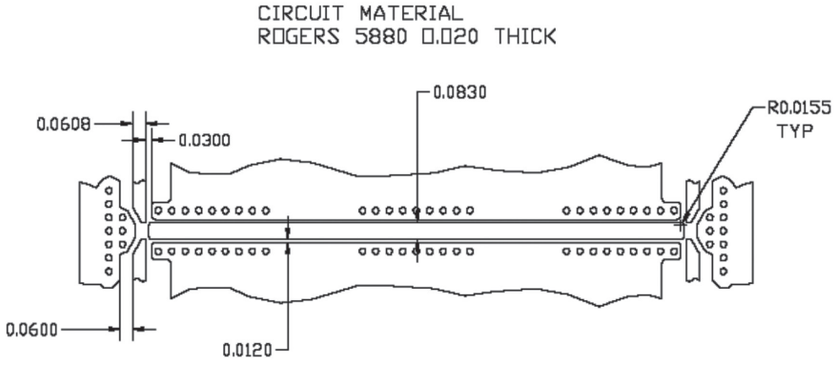
[FIGURE 11 (Non Cross-over)]



[FIGURE 12 (Cross-over)]



[FIGURE 13 PCB Slot]



[FIGURE 14 PCB Line Widths]

COUPLERLINE™ & HYBRIDLINE™

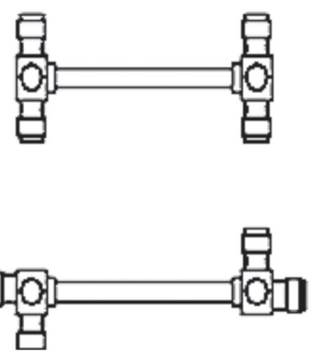
CONNECTORIZED HYBRIDLINE™ & COUPLERLINE™

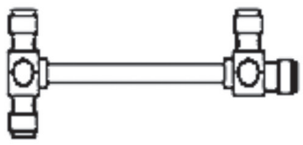
Response provides a coaxial interface for either the HYBRIDLINE or COUPLERLINE core material which have been exclusively developed to provide optimal electrical performance. Various connector configurations and mounting methods are offered to satisfy your specific requirement.

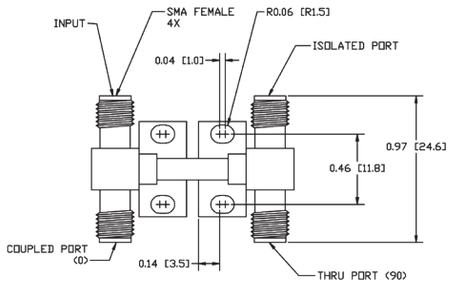
Custom variants are available upon request. Note that there may be slight degradation of electrical performance if the connectors are attached on lengths less than 30mm (frequencies above 2GHz).

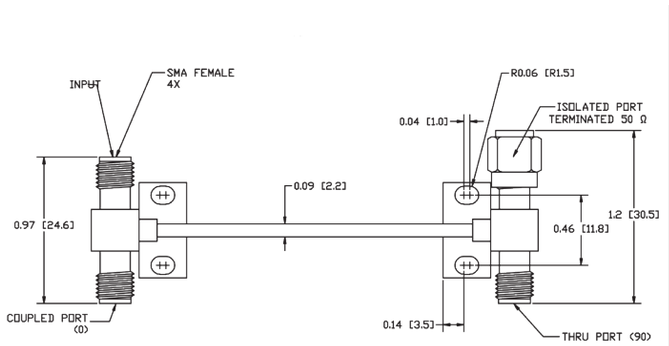
Fixed or removable terminated versions are available upon request.

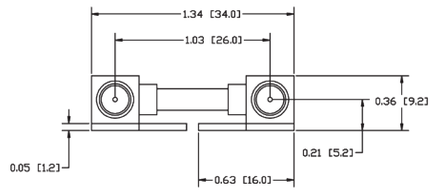
Type T & L connectors are available for RMCL-240 and RMCL-358 product families and T connectors are available for the RMCL-635/3 family. Bracket flange versions are available for RMCL-240 & RMCL-358 only. RMI can also package HYBRIDLINE in a machined aluminum housing with cover and any connector options. The following configurations are available;

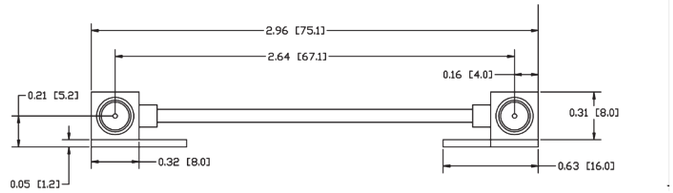












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COUPLERLINE™ & HYBRIDLINE™

HYBRIDLINE PART NUMBERING KEY

RMCL _ _ _ / _ - _ . _ _ . _ _
a b c d

a = **Series**
160 = 0.063" OD jacket
240 = 0.095" OD jacket
358 = 0.141" OD jacket
635 = 0.250" OD jacket
947 = 0.390" OD jacket

b = **Coupling Value**
3 = 3dB
28 = 2.8 dB
48 = 4.77dB
6 = 6dB
10 = 10dB
15 = 15dB
20 = 20dB
25 = 25dB
30 = 30dB

c = **Length**
Jacket length in inches (only if pre-cut material is required) or "B" for bulk 1 meter un stripped lengths

d = **Outer Jacket Plating**
T = tin plate
C = bare copper

Formula for calculating length based on operating center frequency:

Use the following choice of formulas to determine the jacket length required to accommodate your specific frequency range.

The length of coupler line (1/4 wavelength) L

$$L = \frac{\zeta \cdot V_o}{4 \cdot f_o}$$

ζ : Velocity factor
V_o : Propagation velocity at vacuum
f_o : center frequency (Hz)

Example:
Velocity factor 63% ($\zeta = 0.63$), center frequency f_o = 1GHz
L = 47.25 (mm)
Required length becomes 47.25mm plus lead length.

$$L = \frac{0.63 \times 3 \times 10^{11}}{4 \times 1 \times 10^{9}} = 47.25 \text{ (mm)}$$

An alternate method for calculations is as follows:

To get the length, L, in inches (excluding exposed leads) use the formula;

L= 2.95 x velocity factor / center frequency

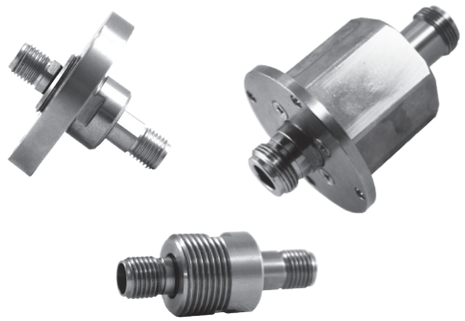
Where the velocity factor is taken from the product specifications for the chosen cross section, and the center frequency is in GHz.

Do multiplication of 2.95 times the velocity factor, thus if the velocity factor is 0.63, the magic number would be 0.63 x 2.95 = 1.86

If you want to use MHz in place of GHz, multiply the magic number by 1000. So the length in inches for this particular material would be 1860 / center Frequency in MHz

The length in mm is simply 25.4 times the length in inches.
The length in cm is 2.54 times the length in inches.

COAXIAL ROTARY JOINTS



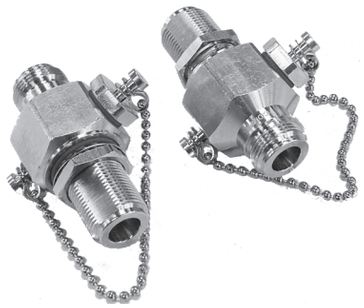
FEATURES

- Precious metal contacts
- Frequency coverage to 40GHz
- Removable mounting flange
- Impedance is 50 Ω
- Average power is 100W @ 1 GHz
- Operating temperature range -35°C to +80°C
- Case material is nickel plated aluminum alloy or stainless steel
- Custom development welcome including waveguide

CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	VSWR (max)	ROTATIONAL EFFECT (WOW)	ROTATIONAL SPEED (continuous)	STARTING TORQUE (max)	MODEL NUMBER
SMA Female/Female	DC - 18000	1.0	1.20 : 1	1.01/360°	100 rpm	3 oz-in	RMRJ.18000Sff
SMA Female/Female	DC - 27000	0.3	1.20 : 1	1.01/360°	500 rpm	8 oz-in	RMRJ.27000Sff
N Female/Female	DC - 12500	0.4	1.40 : 1	1.01/360°	500 rpm	8 oz-in	RMRJ.12500Nff
2.92 Female/Female	DC - 40000	1.0	1.70 : 1	1.01/360°	250 rpm	5 oz-in	RMRJ.40000Kff
N Female/Female	DC - 18000	0.5	1.50 : 1	1.01/360°	100 rpm	2 oz-in	RMRJ.18000Nff
TNC Female/Female	DC - 18000	0.5	1.50 : 1	1.01/360°	100 rpm	2 oz-in	RMRJ.18000Tff

Notes:

- Alternate connectors available upon request
- Additional frequencies/bandwidths available upon request



SURGE PROTECTORS

FEATURES

- 1/4 wave & gas tube styles
- Low IMP

GDI TYPE

CONNECTORS	FREQUENCY (MHz)	THROUGHPUT (kv/ka)	VSWR (max)	INSERTION LOSS (dB max)	POWER (W peak)	MODEL NUMBER
N Male/Female	DC – 2500	6/10	1.20 : 1	0.2	250	RMSP.2500Nmf
	DC – 6000	6/10	1.20 : 1	0.2	300	RMSP.6000Nmf
N Female/Female	DC – 2500	6/10	1.20 : 1	0.2	250	RMSP.2500Nff
7/16 Female/Female	DC – 2500	6/10	1.20 : 1	0.2	300	RMSP.2500716ff
7/16 Female/N Female	DC – 2500	6/10	1.20 : 1	0.2	250	RMSP.2500716Nff

1/4 WAVE TYPE

CONNECTORS	FREQUENCY (MHz)	THROUGHPUT (kv/ka)	VSWR (max)	INSERTION LOSS (dB max)	POWER (W peak)	MODEL NUMBER
N Male/Female	800 – 900	6/10	1.20 : 1	0.1	300	RMSP.900Nmf
	1700 – 1900	6/10	1.20 : 1	0.1	300	RMSP.1900Nmf
	1900 – 2200	6/10	1.20 : 1	0.1	300	RMSP.2200Nmf
	5600 – 6000	6/10	1.20 : 1	0.1	300	RMSP.6000Nmf
7/16 Male/Female	800 – 2200	6/10	1.20 : 1	0.1	500	RMSP.2200716mf

Notes:

- Alternate connectors available upon request
- Additional frequencies/bandwidths available upon request

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PHASE SHIFTERS/LINE STRETCHERS

FEATURES

- Highly stable
- Built-in locking mechanism
- Phase variation adjustable over a wide range
- Fine-adjustment via trimmer
- Characteristic impedance is 50 Ω
- Operating temperature range -40°C to +105°C
- Connector material is passivated stainless steel
- Case material is aluminum w/golden iridite

CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	VSWR (max)	PHASE VARIATION (deg/GHz)	MODEL NUMBER
SMA Female	DC - 18000	0.25	1.15 : 1	53	RMPS.18000Sf
	DC - 20000	0.25	1.15 : 1	53	RMPS.20000Sf
SMA Female/Female	DC - 18000	0.20 + 0.04f	1.35 : 1	15	RMLS.18000Sff
2.92mm Female	DC-40000	1.3	1.15:1	50	RMPS.40000.292f
SMA Male/Female	DC - 18000	0.20 + 0.04f	1.35 : 1	15	RMLS.18000Smf

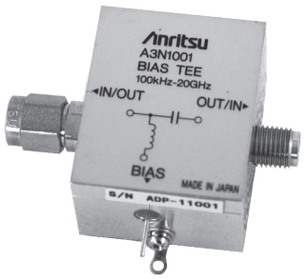
Notes:

- Custom cable delay lines available upon request
- Alternate connectors available upon request
- Additional frequencies/bandwidths available upon request

DC BLOCKS & BIAS TEES

FEATURES

- Operating frequency range DC - 40GHz
- Characteristic impedance is 50 Ω
- Operating temperature range -55°C to +85°C

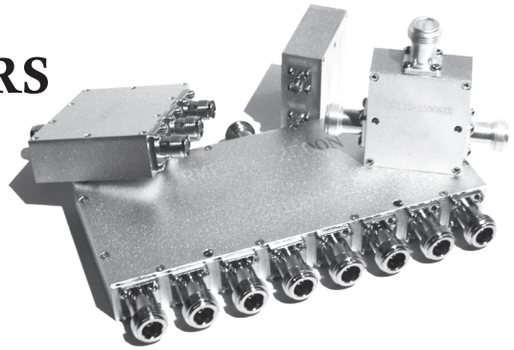


CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	VOLTAGE RATING (V)	VSWR (max)	POWER	MODEL NUMBER
SMA Male/Female	DC - 6000	0.4	250	1.30 : 1	25 W	RMDC.6000SMAmf
	DC - 18000	0.8	200	1.25 : 1	10 W	RMDC.18000SMAmf
	DC -26500	0.8	50	1.25:1	1 W	RMDC.26500SMA27mf
N Male/Female	380 - 2500	0.12	3000	1.20 : 1	250 W	RMDC.2500Nmf
	DC - 3000	0.4	100	1.20 : 1	50 W	RMDC.3000Nmf
	DC - 3000	0.4	250	1.20 : 1	100 W	RMDC.3000Nmf100
	DC - 6000	0.4	250	1.20 : 1	100 W	RMDC.6000Nmf
	DC - 12000	0.5	250	1.25 : 1	100 W	RMDC.12000Nmf
	DC - 18000	0.6	50	1.25 : 1	100 W	RMDC.18000Nmf
2.92 Male/Female	DC - 25000	2.0	16	1.40 : 1	10 W	A3N1023
	DC - 40000	0.8	50	1.30 : 1	0.5 W	RMDC.40000.292mf
2.92 Female/Female	DC - 20000	3.0	±30	1.20 : 1	±0.5 A	A3N1003
	DC - 20000	3.0	±30	1.20 : 1	±0.5 A	A3N1007
	DC - 20000	3.0	±30	1.20 : 1	±0.5 A	A3N1015
	DC - 20000	3.0	±30	1.20 : 1	±0.2 A	A3N1026

Notes:

- Alternate connectors available upon request
- Additional frequencies/bandwidths available upon request

POWER DIVIDERS/SPLITTERS



FEATURES

- Low Cost
- 2-way to N-way
- Frequency coverage to 40GHz
- In-line or T-configuration
- Models available in 50 and/or 75 Ω impedance values
- Custom development welcome

TYPE	CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	PHASE BALANCE (°)	AMPLITUDE BALANCE (dB)	MODEL NUMBER
2-WAY	SMA Female	1 - 100	0.5	25	1.40 : 1	2	0.2	RMPD2.1-100Sf
		1 - 200	0.7	20	1.35 : 1	2	0.2	RMPD2.1-200Sf
		20 - 200	0.35	20	1.30 : 1	2	0.2	RMPD2.20-200Sf
		100 - 250	0.8	20	1.40 : 1	3	0.2	RMPD2.100-250Sf
		200 - 400	0.35	20	1.30 : 1	2	0.2	RMPD2.200-400Sf
		225 - 450	0.35	20	1.30 : 1	2	0.2	RMPD2.225-450Sf
		5 - 500	0.8	20	1.40 : 1	4	0.3	RMPD2.500Sf
		800 - 940	0.3	20	1.30 : 1	2	0.2	RMPD2.800-940Sf
		10 - 1000	1.0	20	1.50 : 1	3	0.3	RMPD2.10-1000Sf
		100-1000	0.6	20	1.35 : 1	2	0.3	RMPD2.100-1000Sf
		500 - 1000	0.6	20	1.40 : 1	2	0.3	RMPD2.500-1000Sf
		800 - 1650	0.3	25	1.40 : 1	2	0.3	RMPD2.1650Sf
		1600 - 1900	0.4	22	1.30 : 1	2	0.2	RMPD2.1.6-1.9Sf
		.01 - 2000	1.1	12	1.45 : 1	4	0.5	RMPD2.01-2Sf
		500 - 2000	0.5	20	1.25 : 1	2	0.2	RMPD2.500-2000Sf
		1000 - 2000	0.35	20	1.20 : 1	2	0.2	RMPD2.1000-2000Sf
		10 - 2150	2	20	1.45 : 1	2	0.2	RMPD2.10-2150Sf
		800 - 2200	0.25	25	1.10 : 1	2	0.3	RMPD2.2200Sf
		1700 - 2200	0.35	20	1.30 : 1	2	0.2	RMPD2.1700-2200Sf
		2000 - 2200	0.3	25	1.40 : 1	2	0.3	RMPD2.2000-2200Sf
		10 - 2500	0.6	20	1.40 : 1	2	0.2	RMPD2.10-2500Sf
		800 - 2500	0.6	19	1.35 : 1	2	0.2	RMPD2.2500Sf
		650 - 2700	0.4	22	1.30 : 1	2	0.2	RMPD2.650-2700Sf
		700 - 2700	0.4	22	1.30 : 1	2	0.2	RMPD2.700-2700Sf
		500 - 3000	0.6	18	1.30 : 1	2	0.2	RMPD2.500-3000Sf
		600 - 3000	0.3	18	1.25 : 1	2	0.2	RMPD2.3000Sf
		3100 - 3400	0.4	22	1.30 : 1	2	0.2	RMPD2.3100-3400Sf
		500-4000	0.8	20	1.30 : 1	2	0.2	RMPD2.500-4000Sf
		2000 - 4000	0.3	20	1.30 : 1	2	0.3	RMPD2.2000-4000Sf
		3700 - 4200	0.4	20	1.25 : 1	2	0.2	RMPD2.3700-4200Sf
		800 - 6000	1.25	20	1.50 : 1	5	0.5	RMPD2.08-6Sf
		2000 – 6000	0.5	20	1.35 : 1	3	0.3	RMPD2.2000-6000Sf
		5900 - 6500	0.4	20	1.25 : 1	2	0.2	RMPD2.5900-6500Sf

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POWER DIVIDERS/SPLITTERS

TYPE	CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	PHASE BALANCE (°)	AMPLITUDE BALANCE (dB)	MODEL NUMBER
2-WAY	SMA Female	2500 - 6700	0.5	18	1.45 : 1	5	0.6	RMPD2.6700Sf
		2000 – 8000	0.8	18	1.40 : 1	3	0.2	RMPD2.2000-8000Sf
		4000 - 8000	0.5	20	1.35 : 1	2	0.2	RMPD2.4000-8000Sf
		7000 - 9000	0.8	20	1.50 : 1	5	0.3	RMPD2.7000-9000Sf
		8000 – 10000	0.4	20	1.25 : 1	3	0.3	RMPD2.8000-10000Sf
		500 - 12000	3.8	18	1.50 : 1	8	0.5	RMPD2.500-12000Sf
		1000 – 13000	0.8	20	1.40 : 1	2	0.2	RMPD2.1-13Sf
		10000 - 15000	0.8	20	1.50 : 1	5	0.3	RMPD2.10000-15000Sf
		50 - 18000	2.0	15	1.50 : 1	5	0.5	RMPD2.05-18Sf
		2000 – 18000	1.8	15	1.80 : 1	5	0.5	RMPD2.2-18Sf
		6000 – 18000	0.8	17	1.50 : 1	5	0.4	RMPD2.6-18Sfa
		2000 - 26000	1.2	20	1.7 : 1	3	0.3	RMPD2.2-26Sf
		18000 - 26000	1.2	20	1.50 : 1	5	0.5	RMPD2.18-26Sf
	N Female	5 - 500	1.5	20	1.25 : 1	6	0.4	RMPD2.5-500Nf
		50 - 500	0.5	20	1.50 : 1	2	0.2	RMPD2.50-500Nf
		1000 - 2000	0.3	20	1.30 : 1	4	0.3	RMPD2.1000-2000Nf
		800 - 2200	0.3	20	1.25 : 1	2	0.2	RMPD2.2200Nf
		800 - 2500	0.6	19	1.35 : 1	2	0.2	RMPD2.2500Nf
		800 - 2500	0.3	20	1.25 : 1	2	0.2	RMPD2.2500NTS
		600 - 3000	0.3	18	1.25 : 1	2	0.2	RMPD2.3000.Nf
		500 - 4000	0.6	20	1.30 : 1	3	0.2	RMPD2.500-4000Nf
		3700 - 4200	0.4	20	1.25 : 1	2	0.2	RMPD2.3700-4200Nf
		500 - 6000	1.0	18	1.50 : 1	3	0.3	RMPD2.500-6000Nf
		500 - 6000	1.5	18	1.60 : 1	4	0.6	RMPD2.500-6000Nfa
		2000 - 6000	0.8	18	1.40 : 1	3	0.3	RMPD2.2000-6000Nf
		5000 - 6000	0.5	20	1.50 : 1	2	0.5	RMPD2.5000-6000Nf
		2000 - 8000	0.8	20	1.50 : 1	2	0.3	RMPD2.2000-8000Nf
		5900 - 8500	0.8	16	1.50 : 1	5	0.5	RMPD2.5900-8500Nf
	RPTNC Female	800 - 2400	0.3	22	1.20 : 1	2	0.2	RMPD2.2400TRP/TRJ
		5000 - 5900	0.5	20	1.35 : 1	2	0.3	RMPD2.5900RPTf
	2.92mm Female	2000 - 26000	1.2	20	1.7 : 1	3	0.3	RMPD2.2-26.292f
		2000 - 32000	1.5	18	1.5 : 1	4	0.2	RMPD2.2-32.292f
		500 - 40000	3.5	16	1.6 : 1	6	0.5	RMPD2.05-40.292f
		1000 - 40000	3.0	18	1.6 : 1	6	0.4	RMPD2.1-40.292f
		4000 - 40000	1.8	18	1.6 : 1	4	0.3	RMPD2.4-40.292f

POWER DIVIDERS/SPLITTERS

TYPE	CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	PHASE BALANCE (°)	AMPLITUDE BALANCE (dB)	MODEL NUMBER
3-WAY	SMA Female	5 - 10	0.8	20	1.45 : 1	6	0.6	RMPD3.5-10Sf
		2 - 18	2.4	16	1.65 : 1	18	1.4	RMPD3.2-18Sf
		20 - 200	1.0	20	1.50 : 1	6	0.6	RMPD3.20-200Sf
		100 - 250	0.8	20	1.25 : 1	5	0.5	RMPD3.100-250Sf
		800 - 940	0.4	20	1.20 : 1	5	0.5	RMPD3.800-940Sf
		100 - 1000	0.5	20	1.45 : 1	5	0.5	RMPD3.100-1000Sf
		900 - 1600	0.5	20	1.50 : 1	4	0.5	RMPD3.900-1600Sf
		500 - 2000	0.75	18	1.40 : 1	8	0.4	RMPD3.500-2000Sf
		800 - 2500	0.8	20	1.50 : 1	4	0.5	RMPD3.2500Sf
		2300 - 2500	0.2	20	1.25 : 1	4	0.5	RMPD3.2300-2500Sf
		700 - 2700	0.8	18	1.60 : 1	5	0.5	RMPD3.700-2700Sf
		600 - 3000	0.5	20	1.20 : 1	2	0.3	RMPD3.3000Sf
		2500 - 3500	0.3	20	1.30 : 1	4	0.5	RMPD3.2500-3500Sf
		500 - 6000	1.9	16	1.60 : 1	8	0.8	RMPD3.500-6000Sf
	N Female	400 - 500	0.8	20	1.30 : 1	5	0.5	RMPD3.400-500Nf
		800 - 2500	0.25	25	1.10 : 1	2	0.2	RMPD3.2500Nf
		700 - 2700	0.8	19	1.50 : 1	5	0.5	RMPD3.700-2700Nf
		600 - 3000	0.4	20	1.25 : 1	5	0.5	RMPD3.3000Nf
		500 - 6000	1.9	16	1.60 : 1	8	0.8	RMP3.500-6000Nf
	N Female T-CONFIG SILVER PLATED	800 - 2500	0.8	20	1.50 : 1	4	0.5	RMPD3.2500NTS
	N Female T-config	5100 - 5900	0.7	20	1.35 : 1	5	0.6	RMPD3.5159NfT
	RPTNC Female	2300 - 2500	0.2	20	1.25 : 1	4	0.5	RMPD3.2400TRJ
4-WAY	SMA Female	1 - 100	0.8	22	1.50 : 1	6	0.6	RMPD4.1-100Sf
		1 - 200	0.4	30	1.15 : 1	4	0.2	RMPD4.1-200Sf
		100 - 250	0.8	20	1.25 : 1	5	0.5	RMPD4.100-250Sf
		10 - 300	1.2	20	1.40 : 1	6	0.3	RMPD4.10-300Sf
		5 - 500	1.5	20	1.25 : 1	4	0.4	RMPD4.5-500Sf
		800 - 940	0.4	20	1.20 : 1	5	0.5	RMPD4.800-940Sf
		100 - 1000	0.5	20	1.45 : 1	5	0.5	RMPD4.100-1000Sf
		800 - 1650	0.4	25	1.40 : 1	5	0.5	RMPD4.800-1650Sf
		500 - 2000	0.9	20	1.30 : 1	5	0.4	RMPD4.500-2000Sf
		1000 - 2000	0.6	25	1.30 : 1	5	0.5	RMPD4.1000-2000Sf
		800 – 2500	0.6	20	1.30 : 1	6	0.6	RMPD4.800-2500Sf
		700 - 2700	0.8	18	1.60 : 1	5	0.5	RMPD4.700-2700Sf
		500 - 3000	0.6	20	1.30 : 1	5	0.5	RMPD4.500-3000Sf
		600 - 3000	1.0	20	1.45 : 0	5	0.5	RMPD4.3000Sf
		1000 - 3000	1.0	20	1.50 : 1	5	0.6	RMPD4.1000-3000Sf
		3000 - 3500	0.45	23	1.30 : 1	2	0.1	RMPD4.3000-3500Sf

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POWER DIVIDERS/SPLITTERS

TYPE	CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	PHASE BALANCE (°)	AMPLITUDE BALANCE (dB)	MODEL NUMBER
4-WAY	SMA Female	2000 - 4000	0.8	20	1.40 : 1	4	0.4	RMPD4.2000-4000Sf
		3000 – 4200	0.8	20	1.30 : 1	6	0.4	RMPD4.3000-4200Sf
		500 - 6000	1.5	16	1.50 : 1	3	0.5	RMPD4.500-6000Sfa
		800 - 6000	1.1	20	1.70 : 1	6	0.4	RMPD4.800-6000Sf
		2000 – 6000	0.9	20	1.35 : 1	6	0.6	RMPD4.2000-6000Sf
		2000 - 8000	1.0	20	1.50 : 1	5	0.4	RMPD4.2000-8000Sf
		4000 - 8000	0.8	20	1.30 : 1	3	0.3	RMPD4.4000-8000Sf
		7000 - 9000	0.5	20	1.35 : 1	6	0.4	RMPD4.7000-9000Sf
		7000 - 11000	0.8	20	1.30 : 1	4	0.2	RMPD4.7-11Sf
		500 - 12000	3.8	16	1.60 : 1	12	0.2	RMPD4.05-12Sf
		7000 - 13000	0.8	20	1.40 : 1	6	0.8	RMPD4.7-13Sf
		2000 - 18000	2.2	16	1.50 : 1	8	0.6	RMPD4.2-18Sf
		2000 - 18000	1.8	17	1.60 : 1	12	0.5	RMPD4.2-18Sf a
		4000 - 18000	0.8	20	1.50 : 1	5	0.8	RMPD4.4-18Sf
		6000 - 18000	1.2	16	1.50 : 1	5	0.5	RMPD4.6-18Sf
	N Female	1000 - 2000	0.6	25	1.30 : 1	5	0.5	RMPD4.1000-2000Nf
		800 - 2500	0.25	25	1.10 : 1	2	0.2	RMPD4.800-2500Nf
		600 - 3000	0.5	18	1.30 : 1	5	0.5	RMPD4.3000Nf
		1000 - 3000	1	20	1.50 : 1	5	0.6	RMPD4.1000-3000Nf
		2000 - 4000	0.8	20	1.40 : 1	4	0.4	RMPD4.2000-4000Nf
		2000 – 6000	0.9	20	1.40 : 1	4	0.4	RMPD4.2000-6000Nf
		2000 - 8000	1.5	18	1.70 : 1	6	0.5	RMPD4.2000-8000Nf
	SMT	800 - 2500	1.4	17	1.50 : 1	6	0.6	RMPD4.800-2500SMT
	2.92 Female	4000 - 40000	3.8	20	1.60 : 1	6	0.5	RMPD4.4-40.292f
		18000 - 40000	1.3	16	1.70 : 1	8	0.8	RMPD4.18-40.292f
		26500 - 40000	2.4	18	1.60 : 1	5	0.4	RMPD4.26.5-40.292f
5-WAY	SMA Female	700 - 2700	0.8	18	1.60 : 1	6	0.5	RMPD5.700-2700Sf
6-WAY	SMA Female	500 - 2000	1	18	1.50 : 1	8	1.0	RMPD6.500-2000Sf
		950-2150	0.8	20	1.25 : 1	10	1.0	RMPD6.950-2150Sf
		800 - 2500	1.2	20	1.50 : 1	8	0.7	RMPD6.2500Sf
		700 - 2700	0.9	16	1.50 : 1	8	0.7	RMPD6.700-2700Sf
		500 - 3000	1.0	16	1.50 : 1	8	0.7	RMPD6.500-3000Sf
		600 - 3000	1.0	16	1.50 : 1	8	0.7	RMPD6.3000Sf
		1000 - 5000	2.0	16	1.60 : 1	8	0.7	RMPD6.1000-5000Sfa
		500 - 6000	2.9	15	1.80 : 1	10	0.8	RMPD6.500-6000Sf
	N Female	400 - 500	0.7	20	1.50 : 1	5	0.6	RMPD6.400-500Nf
		800 - 2500	1.4	18	1.70 : 1	5	0.6	RMPD6.2500Nf
		800 - 2500	1.4	18	1.70 : 1	9	0.8	RMPD6.800-2500Nf
		800 - 3000	0.8	20	1.30 : 1	6	0.6	RMPD6.3000Nf
		500 - 6000	2.9	15	1.80 : 1	10	0.8	RMPD6.500-6000Nf

POWER DIVIDERS/SPLITTERS

TYPE	CONNECTORS	FREQUENCY (MHz)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	PHASE BALANCE (°)	AMPLITUDE BALANCE (dB)	MODEL NUMBER
8-WAY	SMA Female	0.5 - 175	1.6	18	1.20 : 1	5	0.3	RMPD8.05-175Sf
		5 - 500	2.0	18	1.30 : 1	8	0.8	RMPD8.5-500Sf
		200 - 600	2.5	20	1.40 : 1	5	0.5	RMPD8.200-600Sf
		500 - 1000	0.7	20	1.50 : 1	15	1.6	RMPD8.500-1000Sf
		1000 - 2000	0.6	25	1.30 : 1	4	0.3	RMPD8.1000-2000Sf
		800 – 2500	1.8	20	1.50 : 1	15	1.6	RMPD8.2500Sf
		600 – 3000	1.8	20	1.50 : 1	15	1.6	RMPD8.3000Sf
		2000 - 4000	0.9	18	1.50 : 1	5	0.4	RMPD8.2000-4000Sf
		3700-4200	1.0	20	1.50 : 1	6	0.8	RMPD8.3700-4200Sf
		5900-6500	1.0	20	1.50 : 1	6	0.8	RMPD8.5900-6500Sf
		4000 - 12000	2.0	16	1.60 : 1	8	0.6	RMPD8.4000-12000Sf
		8000 - 12400	1.2	16	1.60 : 1	6	0.4	RMPD8.8000-12400Sf
		8000 - 17000	1.5	17	1.60 : 1	5	0.3	RMPD8.8000-17000Sf
		2000 - 18000	3.2	15	1.80 : 1	10	0.8	RMPD8.2-18Sf
		6000 - 18000	2.2	16	1.80 : 1	10	0.8	RMPD8.6-18Sf
	N Female	1000 - 2000	0.75	20	1.40 : 1	4	0.3	RMPD8.1000-2000Nf
		800 - 2500	1.8	20	1.50 : 1	15	1.6	RMPD8.2500Nf
		600 - 3000	1.8	20	1.50 : 1	15	1.6	RMPD8.3000Nf
		2000 - 4000	0.9	18	1.50 : 1	5	0.4	RMPD8.2000-4000Nf
	2.92mm Female	2000 - 32000	5.0	16	1.60 : 1	7	0.6	RMPD8.2-32.292f
10-WAY	SMA Female	800 – 2000	1.0	18	1.50 : 1	12	0.8	RMPD10.800-2000Sf
		800 – 2500	2.0	18	1.50 : 1	12	0.8	RMPD10.800-2500Sf
	N Female	800 – 2500	2.6	20	1.50 : 1	10	0.5	RMPD10.800-2500Nf
12-WAY	SMA Female	1200 - 1400	1.2	18	1.30 : 1	15	1.6	RMPD12.1200-1400Sf
		800 – 2500	1.5	20	1.30 : 1	15	1.6	RMPD12.800-2500Sf
		2000 - 20000	3.9	16	1.70 : 1	10	1.0	RMPD12.2-20Sf
	N Female	800 - 2500	1.5	18	1.30 : 1	15	1.6	RMPD12.800-2500Nf
16-WAY	SMA Female	2 - 30	1.7	20	1.50 : 1	15	1.0	RMPD16.02-30Sf
		800-2200	0.9	20	1.50 :1	6	0.8	RMPD16.800-2200Sf
		650 - 2400	0.8	25	1.30 : 1	14	0.9	RMPD16.650 - 2400Sf
		800 - 2500	1.6	18	1.50 : 1	6	1.6	RMPD16.800 - 2500Sf
		700 - 3000	0.6	20	1.50 ; 1	6	0.8	RMPD16.700-3000Sf
		2000 - 4000	1.4	22	1.30 : 1	3	0.3	RMPD16.2000-4000Sf
		500 - 6000	5.0	15	1.80 : 1	15	0.8	RMPD16.500-6000Sf
		5000 - 6000	1.5	18	1.70 : 1	6	1.6	RMPD16.5000-6000Sf
		4000 - 8000	1.7	20	1.40 : 1	5	0.4	RMPD16.4000-8000Sf
		4000 - 12000	2.8	16	1.70 : 1	10	0.6	RMPD16.4000-12000Sf
		2000-18000	3.0	16	1.70:1	10	0.7	RMPD16.2000-18000Sf

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POWER DIVIDERS/SPLITTERS

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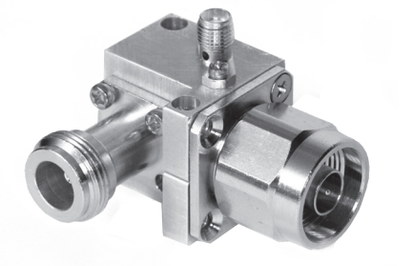
16-WAY	N Female	1000 - 2000	1.6	18	1.50 : 1	6	1.6	RMPD16.1000-2000Nf
	N/SMA Female	800 - 2500	1.6	18	1.50 : 1	6	1.6	RMPD16.800-2500NSMAff
	2.92mm Female	2000 - 32000	6.8	15	1.70 : 1	12	0.9	RMPD16.2-32.292f
20-WAY	SMA Female	1250 – 1400	2.3	18	1.50 : 1	15	0.5	RMPD20.1250-1400Sf
24-WAY	SMA Female	600 - 3000	2.8	18	1.50 : 1	10	1.0	RMPD24.600-3000Sf
	N/SMA Female	600 – 2400	3	19	1.40 : 1	12	0.8	RMPD24.600-2400SMANff
		500 - 6000	6.5	16	2.0 : 1	15	1.2	RMPD24.500-6000SMANff
32 WAY	SMA Female	540	2	20	1.60:1	7	0.8	RMPD32.540.Smf
		2500-2900	2	20	1.60:1	7	0.8	RMPD32.2500-2900.Smf
		3100-3500	2	20	1.60:1	7	0.8	RMPD32.3100-3500.Smf
		4000-12000	3.6	15	1.80:1	12	0.8	RMPD32.4000-12000Sf

Notes:

- Alternate connector options are available upon request
- Additional frequencies/bandwidths available upon request

DIRECTIONAL COUPLERS



FEATURES

- Low insertion loss
- Coupling values available to 52dB
- Frequency coverage to 40GHz
- Connector, tab, or drop-in configuration
- Custom development welcome

CONNECTORS	COUPLING (dB)	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	DIRECTIVITY (dB min)	VSWR (max)	MODEL NUMBER
SMA Female	6	500 – 2000	50	0.5	20	1.20 : 1	RMCO6.500-2000Sf
		1000 – 2000	50	0.2	24	1.15 : 1	RMCO6.1000-2000Sf
		800 – 2500	50	0.6	18	1.20 : 1	RMCO6.2500Sf
		1000 – 4000	50	0.5	20	1.20 : 1	RMCO6.1000-4000Sf
		2000 – 4000	50	0.2	22	1.15 : 1	RMCO6.2000-4000Sf
		2000 – 8000	50	0.4	20	1.25 : 1	RMCO6.2000-8000Sf
		4000 - 8000	50	0.5	20	1.25 : 1	RMCO6.4000-8000Sf
		8600 – 9500	50	0.1	15	1.22 : 1	RMCO6.8600-9500Sf
		6000 - 10000	50	2.0	15	1.30 : 1	RMCO6.6-10Sf
		8000 - 10000	50	2.0	15	1.15 : 1	RMCO6.8-10Sf
		7500 – 16000	50	0.5	12	1.45 : 1	RMCO6.7500-16000Sf
		8000 – 16000	50	0.7	12	1.50 : 1	RMCO6.8-16Sf
		2000 – 18000	50	1.2	12	1.50 : 1	RMCO6.18000Sf
		6000 – 18000	20	0.9	12	1.50 : 1	RMCO6.6000-18000Sf
		500-18000	10	1.0	12	1.60:1	RMCO6.500-18000Sf
	10	30-150	25	1.6	18	1.35 : 1	RMCO10.150Sf
		500 – 2000	50	0.5	20	1.20 : 1	RMCO10.500-2000Sf
		1000 – 2000	50	0.2	24	1.15 : 1	RMCO10.1000-2000Sf
		800 – 2500	10	0.7	18	1.25 : 1	RMCO10.2500Sf
		1000 – 4000	50	0.5	20	1.20 : 1	RMCO10.1000-4000Sf
		2000 – 4000	50	0.2	22	1.15 : 1	RMCO10.2000-4000Sf
		500 - 8000	50	1.5	12	1.50 : 1	RMCO10.500-8000Sf
		2000 – 8000	50	0.4	20	1.25 : 1	RMCO10.2000-8000Sf
		4000 - 8000	50	0.7	18	1.25 : 1	RMCO10.4000-8000Sf
		7500 - 16000	50	0.7	12	1.50 : 1	RMCO10.7500 - 16000Sf
		2000 – 18000	50	1.2	12	1.50 : 1	RMCO10.18000Sf
		6000 – 18000	50	0.7	12	1.50 : 1	RMCO10.6000-18000Sf
		300-1000	50	0.5	20	1.20:1	RMCO10.300-1000Sf
		1000-20000	10	1.5	13	1.60:1	RMCO10.1-20Sf
		500-6000	50	0.6	18	1.50:1	RMCO10.500-6000Sf
		500-18000	10	0.9	15	1.60:1	RMCO10.500-18000Sf
		8000-16000	20	0.7	12	1.50:1	RMCO10.8000-16000Sf
		1000-26500	10	1.8	13	1.60:1	RMCO10.1-26.5Sf
		6000-26500	10	1.3	13	1.40:1	RMCO10.6-26.5Sf

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DIRECTIONAL COUPLERS

CONNECTORS	COUPLING (dB)	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	DIRECTIVITY (dB min)	VSWR (max)	MODEL NUMBER
SMA Female	16	800 – 2500	50	0.4	18	1.25 : 1	RMCO16.2500Sf
	20	960 – 1220	50	0.1	20	1.10 : 1	RMCO20.1220Sf
		500 – 2000	50	0.5	20	1.20 : 1	RMCO20.500-2000Sf
		1000 – 2000	50	0.2	24	1.15 : 1	RMCO20.1000-2000Sf
		800 – 2500	50	0.4	18	1.30 : 1	RMCO20.2500Sf
		3400 – 3600	10	0.5	18	1.25 : 1	RMCO20.3600Sf
		1000 – 4000	50	0.5	20	1.20 : 1	RMCO20.1000-4000Sf
		2000 – 4000	50	0.2	22	1.15 : 1	RMCO20.2000-4000Sf
		5700 – 5900	150	0.5	20	1.35 : 1	RMCO20.5800Sfa
		2000 – 8000	50	0.4	20	1.25 : 1	RMCO20.2000-8000Sf
		4000 - 8000	50	0.7	18	1.25 : 1	RMCO20.4000-8000Sf
		7500 - 16000	50	0.7	12	1.50 : 1	RMCO20.7500 - 16000Sf
		2000 – 18000	50	1.2	12	1.50 : 1	RMCO20.18000Sf
		6000 – 18000	50	0.7	12	1.50 : 1	RMCO20.6000-18000Sf
		1000 – 12400	20	0.7	16	1.4:1	RMCO20.1000-12400Sf
		500-6000	50	0.6	18	1.50:1	RMCO20.500-6000Sf
		500-18000	10	0.9	15	1.60:1	RMCO20.500-18000Sf
		2000-2500	50	0.25	22	1.15:1	RMCO20.2000-2500Sf
		8000-16000	20	0.7	12	1.50:1	RMCO20.8000-16000Sf
	30	500 - 1000	100	0.4	15	1.20 : 1	RMCO30.500-1000Sf
		800 – 2500	50	0.3	15	1.40 : 1	RMCO30.2500Sf
		1000 - 6000	50	0.5	18	1.25 : 1	RMCO30.1000-6000Sf
		2000 - 6000	50	0.4	20	1.20 : 1	RMCO30.2000-6000Sf
		2000 – 8000	50	0.4	20	1.25 : 1	RMCO30.2000-8000Sf
		2000 – 18000	50	0.8	12	1.50 : 1	RMCO30.18000Sf
		6000 – 18000	50	0.8	10	1.50 : 1	RMCO30.6000-18000Sf
		1000-2000	50	0.2	24	1.15:1	RMCO30.1000-2000Sf
		2000-4000	50	0.2	22	1.15:1	RMCO30.2000-4000Sf
		4000-8000	50	0.5	20	1.25:1	RMCO30.4000-8000Sf
		8000-16000	50	0.7	12	1.50:1	RMCO30.8000-16000Sf
	40	2000 – 18000	50	0.8	12	1.50 : 1	RMCO40.18000Sf
SMA/N Female	25	5700-5900	150	0.3	25	1.15 : 1	RMCO25.5800SNf

DIRECTIONAL COUPLERS

CONNECTORS	COUPLING (dB)	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	DIRECTIVITY (dB min)	VSWR (max)	MODEL NUMBER
N Female	5	20 – 1200	300	2.0	20	1.25 : 1	RMCO5.20-1200Nf
	6	460 - 490	50	0.4	18	1.25 : 1	RMCO6.460-490Nf
		800 – 2500	50	0.5	20	1.30 : 1	RMCO6.800-2500Nf
		4000 - 8000	50	0.7	18	1.25 : 1	RMCO6.4000-8000Nf
	10	30 - 150	50	1.6	18	1.35 : 1	RMCO10.30-150Nf
		800 – 2500	50	0.5	20	1.30 : 1	RMCO10.800-2500Nf
		2000 - 4000	200	0.35	20	1.25 : 1	RMCO10.2000-4000Nf
		4000 - 8000	50	0.5	17	1.40 : 1	RMCO10.4000-8000Nf
		100-500	200	0.5	20	1.30:1	RMCO10.100-500Nf
	16	800 – 2500	50	0.4	18	1.25 : 1	RMCO16.2500Nf
	20	960 – 1220	50	0.1	20	1.10 : 1	RMCO20.960-1220Nf
		800 – 2200	50	0.5	18	1.40 : 1	RMCO20.800-2200Nf
		800 – 2500	50	0.5	20	1.30 : 1	RMCO20.800-2500Nf
		3400 – 3600	50	0.5	15	1.25 : 1	RMCO20.3400-3600Nf
		2000 - 4000	200	0.35	20	1.25 : 1	RMCO10.2000-4000Nf
		4000 - 8000	50	0.7	18	1.25 : 1	RMCO20.4000-8000Nf
		100-500	200	0.3	20	1.30:1	RMCO20.100-500Nf
	30	800 – 2500	50	0.5	12	1.30 : 1	RMCO30.2500Nf
		100-500	200	0.5	20	1.30:1	RMCO30.100-500Nf
		2000-8000	200	0.3	18	1.40:1	RMCO30.2000-8000Nf
	40	2100 – 2600	100	0.5	12	1.20 : 1	RMCO40.2100-2600Nf
2.92mm Female	10	500 – 40000	20	3.0	11	1.70 : 1	RMCO10.500-40000.292f
		4000-40000	20	2.1	10	1.70:1	RMCO10.4-40.292f
		26500-40000	20	1.5	12	1.70:1	RMCO10.26.5-40.292f
	20	18000-20000	20	0.8	14	1.40:1	RMCO20.18-20.292f
		26500-40000	20	1.5	12	1.70:1	RMCO20.5-20.292f

Notes:

- Incremental values available upon request. Adjust P/N by inserting value.
- Alternate connector series available upon request.
- Additional frequeencies/bandwidths available upon request
- See COUPERLINE section for available drop-in unit

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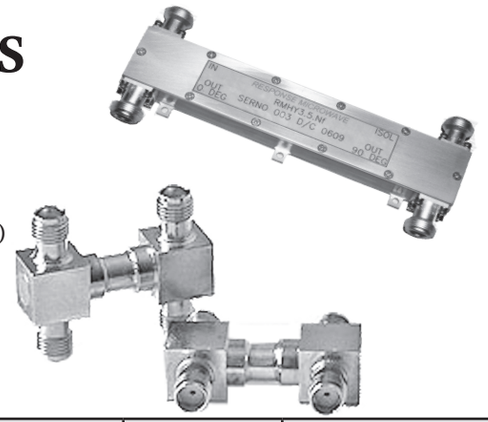
3 dB QUADRATURE HYBRIDS



FEATURES

- Low insertion loss
- Phase Quadrature 90 or 180 degrees
- Frequency coverage to 40GHz
- Connector, tab, or drop-in configuration (see HYBRIDLINE section)
- Impedance is 50 Ω
- Operating temperature range -35°C to +85°C
- Power handling to 1KW average
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
SMA Female	225 - 400	100	0.3	15	1.20 : 1	RMHY3.400Sf
	200 - 500	350	0.3	20	1.30 : 1	RMHY3.200-500L
	200 - 500	350	0.3	20	1.30 : 1	RMHY3.200-500R
	880 - 960	50	0.3	18	1.20 : 1	RMHY3.960Sf
	500 – 1000	100	0.5	20	1.40 : 1	RMHY3.1000Sf
	1000 – 2000	50	0.3	22	1.20 : 1	RMHY3.1-2Sf
	1700 – 2000	50	0.3	18	1.20 : 1	RMHY3.2000Sf
	800 - 2500	50	0.5	20	1.20 : 1	RMHY3.800-2500Sf
	1700 – 3400	100	0.3	20	1.50 : 1	RMHY3.3400Sf
	2000 – 4000	50	0.4	18	1.30 : 1	RMHY3.2-4Sf
	3400 – 3600	250	0.3	20	1.20 : 1	RMHY3.3600Sf
	2000 – 8000	50	0.6	18	1.30 : 1	RMHY3.8000Sf
	5800	50	0.5	18	1.30 : 1	RMHY3.5800Sf
	4000 - 8000	50	0.45	18	1.30 : 1	RMHY3.4-8Sf
	2000 – 18000	50	1.5	16	1.50 : 1	RMHY3.2-18Sf
	2000 – 18000	50	2.0	20	1.50 : 1	RMHY3.2-18Sf180
	1000 – 12400	50	1.3	18	1.40 : 1	RMHY3.1-12.4Sf
	2000-2500	50	0.3	22	1.20:1	RMHY3.2000-2500Sf
	2000-6000	50	0.6	22	1.25:1	RMHY3.2000-6000Sf
	8000-12400	50	0.4	18	1.30:1	RMHY3.8000-12400Sf
	2000-20000	30	1.7	16	1.50:1	RMHY3.2-20Sf
N Female	210 – 420	100	1.6	15	1.50 : 1	RMHY3.420Nf
	100 - 450	100	0.7	18	1.30 : 1	RMHY3.100-450Nf
	250 – 500	1000	0.3	15	1.50 : 1	RMHY3.500Nf
	1700 - 2300	100	0.3	23	1.20 : 1	RMHY3.1700-2300Nf
	800 - 2400	200	0.3	23	1.22 : 1	RMHY3.800-2400Nf
	800 – 2500	125	0.3	23	1.20 : 1	RMHY3.800-2500Nf
	2400 – 2500	250	0.25	20	1.25 : 1	RMHY3.2400-2500Nf
	2100 - 2600	150	0.3	23	1.20 : 1	RMHY3.2100-2600Nf
	800 - 3000	50	1.0	16	1.50 : 1	RMHY3.800-3000Nf180
	1000 - 4000	50	0.5	20	1.40 : 1	RMHY3.1000-4000Nf
	400-800	200	0.5	20	1.40:1	RMHY3.400-800Nf180
	470-870	200	0.4	25	1.15:1	RMHY3.470-870Nf
	4000-8000	200	0.45	18	1.30:1	RMHY3.4000-8000Nf
	500-2500	200	0.5	23	1.25:1	RMHY3.500-2500Nf
	10000-15000	30	1.2	18	1.50:1	RMHY3.10000-15000Nf
	2000-8000	30	0.8	18	1.40:1	RMHY3.2000-8000Nf
	1760-4800	100	0.35	20	1.30:1	RMHY3.1760-4800Nf
	700-6000	50	1.4	18	1.40:1	RMHY3.700-6000Nf

QUADRATURE HYBRIDS

CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
7/16 Female	800 – 2500	125	0.3	23	1.20 : 1	RMHY3.800-2500716f
	700 – 2700	125	0.5	22	1.20 : 1	RMHY3.700-2700716f

Notes:

- Alternate connector options are available upon request
- Additional frequencies/bandwidths available upon request

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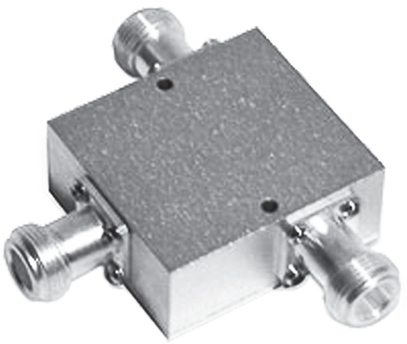
CIRCULATORS



FEATURES

- Economical value
- Drop-in or connectorized
- Frequency coverage to 18GHz
- Impedance 50 Ω
- Operating temperature range -40°C to +80°C
- Power handing to 50 W
- Case material nickel plated aluminum alloy
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
SMA Female	600 - 800	100	0.5	20	1.30 : 1	RMCI.600-800Sf
	700 - 900	100	0.5	20	1.30 : 1	RMCI.700-900Sf
	700-1000	100	0.6	18	1.35:1	RMCI.700-1000Sf
	950 - 1000	50	0.3	23	1.20 : 1	RMCI.950-1000Sf
	800 - 1100	200	0.5	20	1.20 : 1	RMCI.800-1100Sf
	1000 - 2000	10	0.6	17	1.35 : 1	RMCI.1000-2000Sf
	1710 - 2155	100	0.5	20	1.25 : 1	RMCI.1710-2155Sf
	1750 - 2250	50	0.4	20	1.20 : 1	RMCI.1750-2250Sf
	1700-2200	100	0.45	20	1.2:1	RMCI.1700-2200Sf
	1700 - 2300	100	0.4	20	1.25 : 1	RMCI.1700-2300Sf
	2300 - 2500	100	0.3	23	1.20 : 1	RMCI.2300-2500Sf5
	1350 - 2690	100	0.6	17	1.30 : 1	RMCI.1350-2690Sf
	2500 - 2700	50	0.3	20	1.20 : 1	RMCI.2500-2700Sf
	1325 - 2710	50	0.5	17	1.35 : 1	RMCI.1325-2710Sfa
	1600 - 3200	10	0.6	18	1.35 : 1	RMCI.1600-3200Sf
	2000 - 4000	10	0.5	18	1.30 : 1	RMCI.2-4Sf
	3000 - 6000	20	0.6	16	1.40 : 1	RMCI.3-6Sf
	4000-5000	20	0.4	20	1.2:1	RMCI.4000-5000Sf
	4000-12400	50	1	14	1.5:1	RMCI.4000-12400Sf
	7200 - 7400	10	0.3	23	1.20 : 1	RMCI.7200-7400Sf
	7000 - 12400	10	0.7	17	1.30 : 1	RMCI.7000-12400Sf
	8000-12000	50	0.5	18	1.3:1	RMCI.8000-12000Sf
	10000 - 15000	50	0.5	20	1.30 : 1	RMCI.10-15Sf
	12000-18000	100	0.6	18	1.3:1	RMCI.12-18Sf

CIRCULATORS

CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
N Female	164-174	500	0.5	20	1.25:1	RMCI.164-174Nf
	895 - 935	100	0.25	30	1.20 : 1	RMCI.895-935Nfwb
	745- 960	100	0.45	20	1.20 : 1	RMCI.745-960Nf
	880 - 960	50	0.25	30	1.20 : 1	RMCI.880-960Nf
	600 - 1000	100	0.6	20	1.35 : 1	RMCI.600-1000Nf
	700 - 1000	200	0.6	18	1.30 : 1	RMCI.700-1000Nf
	700-1000	100	0.6	18	1.35:1	RMCI.700-1000Nf
	800 - 1000	100	0.3	20	1.20 : 1	RMCI.800-1000Nf
	1700 - 2200	100	0.45	20	1.20 : 1	RMCI1700-2200Nf
	1800 - 2200	200	0.4	20	1.20 : 1	RMCI1800-2200Nf
	2000-4000	100	0.5	18	1.3:1	RMCI.2000-4000Nf
	2300 - 2500	100	0.3	23	1.20 : 1	RMCI.2300-2500Nf5
	2300 - 2500	100	0.3	23	1.20 : 1	RMCI.2300-2500Nf10
	2300 - 2500	100	0.3	23	1.20 : 1	RMCI.2300-2500Nf50
	2400 - 2500	500	0.3	23	1.20 : 1	RMCI.2400-2500Nfa
	2300 - 2700	50	0.4	20	1.20 : 1	RMCI2300-2700Nf
	3400 - 3800	100	0.4	20	1.20 : 1	RMCI.3400-3800Nf
	2000 - 4000	100	0.5	18	1.30 : 1	RMCI.2-4Nf
	4000-8000	100	0.6	17	1.35:1	RMCI.4000-8000Nf
	7200 - 7400	100	0.3	23	1.20 : 1	RMCI.7200-7400Nf
	7000 - 8000	100	0.4	23	1.20 : 1	RMCI.7-8Nf
	8000-12000	100	0.5	18	1.3:1	RMCI-8-12Nf
	10000 - 15000	100	0.5	20	1.30 : 1	RMCI.10-15Nf
DROP-IN	825 - 860	50	0.3	20	1.20 : 1	RMCI.825-860T
	1000 - 2000	50	0.3	23	1.25 : 1	RMCI.1-2T
	2300 - 2500	50	0.35	20	1.20 : 1	RMCI.2300-2500T
	12500 - 15500	25	0.5	19	1.30 : 1	RMCI.12500-15500T
	17100 - 17300	25	0.4	20	1.20 : 1	RMCI.17100-17300T

Notes:

- Alternate connector options are available upon request
- Additional frequencies/bandwidths available upon request

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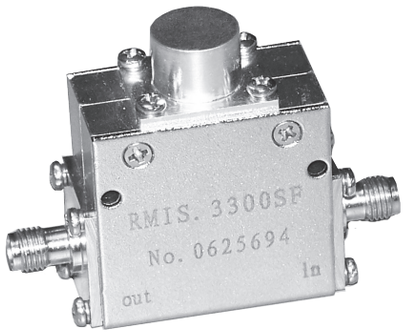
ISOLATORS

FEATURES

- Economical value
- Drop-in or connectorized
- Frequency coverage to 26GHz
- Impedance 50 Ω
- Operating temperature range -40°C to +80°C
- Power handing to 50 W
- Case material nickel plated aluminum alloy
- Custom development welcome



CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
SMA Female	350-450	250	0.4	20	1.25:1	RMIS.350-450Sf
	900-1800	100	0.8	15	1.4:1	RMIS.900-1800Sf
	950-2000	100	0.8	15	1.4:1	RMIS.950-2000Sf
	1000 - 2000	50	0.6	18	1.40 : 1	RMIS.1000-2000Sf
	1600-3200	50	0.6	17	1.4:1	RMIS.1600-3200Sf
	2000-6000	30	0.8	15	1.45:1	RMIS.2000-6000Sf
	2000-8000	30	1.5	13	1.8:1	RMIS.2000-8000Sf
	2020 - 2040	25	0.3	20	1.25 : 1	RMIS.2020-2040Sf
	2200 - 3800	25	0.5	20	1.30 : 1	RMIS.3300Sf
	2000 - 4000	25	0.5	20	1.35 : 1	RMIS.2000-4000Sf
	3400 - 4200	25	0.4	23	1.15 : 1	RMIS.3400-4200Sf
	4000-12400	50	1	14	1.5:1	RMIS.4000-12400Sf
	5600 - 5650	30	0.3	25	1.20 : 1	RMIS.5600-5650Sf
	5000 - 6000	30	0.35	20	1.20 : 1	RMIS.5000-6000Sf
	5800 - 6800	30	0.5	20	1.30 : 1	RMIS.5800-6800Sf
	2000 - 8000	30	1.5	15	1.50 : 1	RMIS.2000-8000Sf
	4000 - 8000	10	0.6	17	1.35 : 1	RMIS.4000-8000Sf
	5000 - 8000	10	0.5	20	1.30 : 1	RMIS.5000-8000Sf
	7700 - 8500	30	0.35	20	1.25 : 1	RMIS.7700-8500Sf
	9000 - 9500	30	0.3	30	1.20: 1	RMIS.9000-9500Sf
	8000 - 12000	50	0.7	20	1.35 : 1	RMIS.8000-12000Sf
	7000 - 12400	10	0.7	18	1.35 : 1	RMIS.7000-12400Sf
	10700 - 11700	50	0.4	20	1.25 : 1	RMIS.10700-11700Sf
	10700-12700	30	0.4	20	1.25:1	RMIS.10700-12700Sf
	12700 - 15500	30	0.4	20	1.25 : 1	RMIS.12700-15500Sf
	12000 - 18000	1	0.5	15	1.20 : 1	RMIS.12000-18000Sf
	14000-20000	1	0.5	20	1.25:1	RMIS.14000-20000Sf
	17000 - 18500	1	0.4	25	1.15 : 1	RMIS.17000-18500Sf
	18000 - 22000	1	0.6	21	1.25 : 1	RMIS.18000-22000Sf
	18000 - 26500	1	0.6	17	1.40: 1	RMIS.18-26.5SMAf

ISOLATORS

CONNECTORS	FREQUENCY (MHz)	POWER (W max)	INSERTION LOSS (dB max)	ISOLATION (dB min)	VSWR (max)	MODEL NUMBER
N Female	115-150	100	0.6	20	1.25:1	RMIS.115-150Nf
	820 - 960	50	0.5	20	1.25 : 1	RMIS20.820-960Nf
	920 - 960	50	0.3	23	1.20 : 1	RMIS23.920-960Nf
	925 - 960	50	0.3	25	1.15 : 1	RMIS25.925-960Nf
	1000 - 1200	25	0.3	20	1.20 : 1	RMIS20.1000-1200Nf
	1805 - 1880	25	0.3	25	1.15 : 1	RMIS25.1805-1880Nf
	2300 - 2500	25	0.3	22	1.25 : 1	RMIS22.2300-2500Nf
	2500 - 2700	25	0.3	22	1.25 : 1	RMIS22.2500-2700Nf
	3600 - 4200	10	0.5	20	1.30 : 1	RMIS20.3600-4200Nf
	4200 - 5500	10	0.5	20	1.30 : 1	RMIS20.4200-5500Nf
	5000 - 6000	10	0.35	20	1.25 : 1	RMIS20.5-6Nf
	5800 - 6500	10	0.5	20	1.30 : 1	RMIS20.5800-6500Nf
	7700 - 8500	10	0.35	20	1.25 : 1	RMIS20.7700-8500Nf
	5700 - 8700	10	0.5	20	1.30 : 1	RMIS20.5700-8700Nf
	6500 - 9000	10	0.5	20	1.35 : 1	RMIS20.6500-9000Nf
	10000 - 15000	10	0.5	20	1.25 : 1	RMIS20.10-15Nf
	12700 - 15500	10	0.4	22	1.20 : 1	RMIS22.12700-15500Nf
DROP-IN	820 - 960	10	0.5	20	1.25 : 1	RMIS20.820-960T
	920 - 960	10	0.3	23	1.20 : 1	RMIS23.920-960T
	1000 - 1120	10	0.3	23	1.20 : 1	RMIS23.1000-1120T
	1170 - 1480	10	0.5	17	1.30 : 1	RMIS17.1170-1480T
	2500 - 2750	10	0.3	20	1.25 : 1	RMIS20.2500-2750T
	3200-3600	100	0.3	23	1.20:1	RMIS.3200-3600T100
	2900-3700	50	0.6	18	1.30:1	RMIS.2900-3700T
	2170-2320	110	0.3	23	1.20:1	RMIS.2170-2320T
	5850 - 7250	10	0.5	20	1.25 : 1	RMIS20.5850-7250T
	7750 - 8500	10	0.4	20	1.20 : 1	RMIS20.7750-8500T
	8100 - 8200	10	0.4	23	1.20 : 1	RMIS23.8100-8200T
	14450 - 15350	10	0.5	20	1.25 : 1	RMIS20.14450-15350T
	15250 - 16600	10	0.5	20	1.20 : 1	RMIS20.15250-16600T
	17100 - 17300	10	0.4	20	1.20 : 1	RMIS20.17100-17300T
	18500 - 18800	10	0.5	20	1.20 : 1	RMIS20.18500-18800T
SMA Female/N Female	13750 - 14500	10	0.4	23	1.20 : 1	RMIS23.13750-14500SNff

Notes:

- Alternate connector options are available upon request
- Additional frequencies/bandwidths available upon request

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FILTERS

FEATURES

- High isolation
- Coaxial or tab interface
- Frequency coverage to 40GHz
- Impedance is 50 Ω
- Operating temperature range -35°C to +80 °C
- Tuneable versions available
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	REJECTION (dB)	VSWR (max)	INSERTION LOSS (dB max)	MODEL NUMBER
SMA Female	396 - 406	> 30	1.30 : 1	0.7	RMFI.396-406Sf
	1043 - 1052	> 50	1.29 : 1	2.0	RMFI.1043-1052Sf
	1525 - 1559	> 55	1.40 : 1	3.0	RMFI.1525-1559Sf
	1835 - 1850	> 30	1.50 : 1	1.5	RMFI.1835-1850Sf
	1850 - 1865	> 30	1.50 : 1	1.5	RMFI.1850-1865Sf
	6000 - 8000	> 30	1.50 : 1	3.0	RMFI.6000-8000Sf
SMA Female/SMA Male	DC - 2500	> 60	1.30 : 1	0.25	RMFI.2500Sfm
	DC - 10000	> 60	1.35 : 1	0.3	RMFI.10000Sfm
	DC - 18000	> 70	1.60 : 1	0.3	RMFI.18000Sfm
N Female	450 - 454	> 60	1.30 : 1	2.5	RMFI.454Nf
	430 - 470	> 73	1.25 : 1	2.0	RMFI.470Nf
	698 - 716	> 50	1.28 : 1	0.8	RMFI.698-716Nf
	728 - 746	> 50	1.28 : 1	0.8	RMFI.728-746Nf
	746 - 775	> 50	1.28 : 1	0.8	RMFI.746-775Nf
	776 - 805	> 50	1.28 : 1	0.8	RMFI.776-805Nf
	890 - 915	> 50	1.30 : 1	0.7	RMFI.915Nf
	925 - 960	> 65	1.30 : 1	2.1	RMFI.960Nf
	1710 - 1785	> 50	1.40 : 1	1.6	RMFI.1785Nf
	2398 - 2498	> 60	1.40 : 1	0.25	RMFI.2498Nf
	2200 - 2700	> 45	1.50 : 1	1.0	RMFI.2700Nf
	3400 - 3800	> 80	1.32 : 1	1.5	RMFI.3800Nf
N Female/N Male	137 - 178	> 60	1.30 : 1	0.6	RMFI.178Nfm
	380 - 512	> 60	1.30 : 1	0.8	RMFI.512Nfm
	762 - 870	> 60	1.30 : 1	0.8	RMFI.870Nfm
2.92 Female/2.92 Male	DC - 7500	-	1.20 : 1	1.0	AN14167
1.85 Female/1.85 Male	DC - 40000	-	1.70 : 1	3.7	AN44170
BNC Male/Female	225 - 405	> 50	1.35 : 1	0.7	RMFI.225-405BNCmf

Notes:

- Alternate connectors available upon request
- Additional frequencies/bandwidths available upon request

DIPLEXERS

FEATURES

- High isolation
- Coaxial or tab interface
- Frequency coverage to 18GHz
- Impedance 50 Ω
- Operating temperature range -35°C to +80°C
- Power handling to 100W average.
- Case material is either silver, iridite or painted aluminum alloy
- Tuneable versions available
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	REJECTION (dB)	VSWR (max)	INSERTION LOSS (dB max)	MODEL NUMBER
SMA Female	231 - 456	>28	1.20 : 1	1.0	RMDU.231-456Sf
	1710 - 1880	>70	1.20 : 1	1.0	RMDU.1880Sf
	1850 - 1990	>70	1.20 : 1	1.0	RMDU.1990Sf
	430 - 2500	>60	1.40 : 1	1.0	RMDU.430-2500Sf
	2200 - 6000	>25	1.50 : 1	1.0	RMDU.2200-6000Sf
N Male	Uplink 698 - 716 Downlink 728 - 746	>60	1.28 : 1	1.2	RMDU.698-746Nf
	746 - 786	>60	1.30 : 1	1.2	RMDU.746-786Nf
	Uplink 777 - 798 Downlink 746 - 768	>45	1.30 : 1	1.5	RMDU.746-798Nf
	Uplink 776 - 805 Downlink 746 - 775	>60	1.28 : 1	1.2	RMDU.746-805Nf
	Uplink 791 - 821 Downlink 832 - 862	>60	1.30 : 1	1.0	RMDU.791-862Nf
	Uplink 824 - 849 Downlink 869 - 894	>60	1.30 : 1	1.0	RMDU.824-894Nf
	862 - 921	>80	1.20 : 1	1.1	RMDU.921Nf
	870 - 960	>60	1.20 : 1	2.3	RMDU.960Nf
	Uplink 880 - 915 Downlink 925 - 960	>60	1.30 : 1	1.0	RMDU.880-960Nf
	Uplink 1427 - 1452 Downlink 1475 - 1500	>55	1.40 : 1	1.0	RMDU.1427-1500Nf
	Uplink 1447 - 1462 Downlink 1495 - 1510	>75	1.20 : 1	1.0	RMDU.1447-1510Nf
	Uplink 1626 - 1660 Downlink 1525 - 1559	>55	1.30 : 1	1.0	RMDU.1525-1660Nf
	Uplink 1710 - 1785 Downlink 1805 - 1880	>55	1.15 : 1	0.5	RMDU.1710-1880Nf
	Uplink 1850 - 1910 Downlink 1930 - 1990	>50	1.40 : 1	1.0	RMDU.1850-1990Nf
	Uplink 1710 - 1730 Downlink 1760 - 2130	>30	1.30 : 1	2.5	RMDU.1710-2130Nf

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DIPLEXERS

CONNECTORS	FREQUENCY (MHz)	REJECTION (dB)	VSWR (max)	INSERTION LOSS (dB max)	MODEL NUMBER
N Female	Uplink 1710 - 1755 Downlink 2110 - 2155	>50	1.40 : 1	1.0	RMDU.1710-2155Nf
	1710 - 2170	>60	1.50 : 1	1.2	RMDU.2170Nf
	Uplink 1710 - 1770 Downlink 2110 - 2170	>50	1.40 : 1	1.0	RMDU.1710-2170Nf
	Uplink 1920 - 1980 Downlink 2110 - 2170	>50	1.40 : 1	1.0	RMDU.1920-2170Nf
	1920 - 2170	>75	1.40 : 1	1.0	RMDU.2170Nf
	Uplink 1700 - 1790 Downlink 2100 - 2190	>50	1.40 : 1	1.0	RMDU.1700-2190Nf
	Uplink 2500 - 2570 Downlink 2620 - 2900	>40	1.25 : 1	1.2	RMDU.2500-2690Nf
	Uplink 2500 - 2570 Downlink 2620 - 2900	>40	1.33 : 1	1.2	RMDU.2500-2900Nf
	3400 - 3800	>80	1.32 : 1	1.5	RMDU.3800Nf
7/16 Female	Uplink 1710 - 1785 Downlink 1805- 1880	>60	1.20 : 1	1.2	RMDU.1710-1880.716f
	Uplink 1710 - 1755 Downlink 2110- 2155	>80	1.30 : 1	0.8	RMDU.1710-2155.716f
4.3-10/SMA Female	Uplink 698 - 787 Downlink 728- 757	>60	1.20 : 1	2.2	RMDU.698-757.4310SMAff
	Uplink 817 - 849 Downlink 862- 894	>80	1.20 : 1	1.6	RMDU.817-894.4310SMAff
	Uplink 1850 - 1915 Downlink 1930- 1995	>80	1.20 : 1	1.8	RMDU.1850-1995.4310SMAff
	Uplink 1710 - 1780 Downlink 2110- 2180	>80	1.20 : 1	1.2	RMDU.1710-2180.4310SMAff

Notes:

- Alternate connector options are available upon request
- Additional frequencies/bandwidths available upon request

FIXED ATTENUATORS

FEATURES

- Attenuation values available to 60dB
- Frequency coverage to 40GHz
- Power handling to 200 W
- Round or rectangular housing
- Operating temperature range -35°C to +80°C
- Case material is either stainless steel passivate, nickel plated aluminum alloy or gold plated brass
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	ATTENUATION (dB max)	POWER (W)(avg/pk)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Male/SMA Female	DC - 18000	30	2 / 5	50	1.20 : 1	RMAT30.18000SMAmf
	DC - 18000	20	2 / 5	50	1.25 : 1	RMAT20.18000SMAmf
	DC - 18000	10	2 / 5	50	1.20 : 1	RMAT10.18000SMAmf
	DC - 18000	6	2 / 5	50	1.20 : 1	RMAT6.18000SMAmf
	DC - 18000	5	2 / 5	50	1.20 : 1	RMAT5.18000SMAmf
	DC - 18000	3	2 / 5	50	1.20 : 1	RMAT3.18000SMAmf
	DC - 18000	1	2 / 5	50	1.20 : 1	RMAT1.18000SMAmf
	DC - 8000	30	10 / 1000	50	1.30 : 1	RMAT30.8000SMAmf10
	DC - 8000	20	10 / 1000	50	1.30 : 1	RMAT20.8000SMAmf10
	DC - 8000	10	10 / 1000	50	1.30 : 1	RMAT10.8000SMAmf10
	DC - 4000	10	2 / 5	50	1.20 : 1	RMAT10.4000SMAmf
	DC - 4000	3	2 / 5	50	1.20 : 1	RMAT3.4000SMAmf
	DC - 3000	40	1 / 2	50	1.15 : 1	RMAT40.3000SMAmf
	DC - 3000	30	25 / 50	50	1.25 : 1	RMAT30.3000SMAmf25
	DC - 3000	30	1 / 2	50	1.15 : 1	RMAT30.3000SMAmf
	DC - 3000	20	25 / 50	50	1.25 : 1	RMAT20.3000SMAmf25
	DC - 3000	20	1 / 2	50	1.15 : 1	RMAT20.3000SMAmf
	DC - 3000	15	1 / 2	50	1.15 : 1	RMAT15.3000SMAmf
	DC - 3000	12	1 / 2	50	1.15 : 1	RMAT12.3000SMAmf
	DC - 3000	10	25 / 50	50	1.25 : 1	RMAT10.3000SMAmf25
	DC - 3000	10	1 / 2	50	1.15 : 1	RMAT10.3000SMAmf
	DC - 3000	6	1 / 2	50	1.15 : 1	RMAT6.3000SMAmf
	DC - 3000	3	1 / 2	50	1.15 : 1	RMAT3.3000SMAmf
	DC - 3000	2	1 / 2	50	1.15 : 1	RMAT2.3000SMAmf
	DC - 3000	1.5	1 / 2	50	1.15 : 1	RMAT1.5.3000SMAmf
	DC - 3000	1.0	1 / 2	50	1.15 : 1	RMAT1.3000SMAmf
	DC - 3000	0.5	1 / 2	50	1.15 : 1	RMAT0.5.3000SMAmf
	DC-26500	1-30	2	50	1.45:1	RMATxx.26500.SMAmf
BNC Male/BNC Female	DC - 3000	3	1 / 2	75	1.50 : 1	RMAT3.3000BNCmf75R
	DC - 1500	6	2 / 4	50	1.20 : 1	RMAT6.1500BNCmf

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FIXED ATTENUATORS

CONNECTORS	FREQUENCY (MHz)	ATTENUATION (dB max)	POWER (W)(avg/pk)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male/N Female	DC - 18000	1 - 30	10 / 100	50	1.50 : 1	RMATXX.18000Nmf
	DC - 6000	50	10 / 100	50	1.50 : 1	RMAT50.6000Nmf
	DC - 6000	40	10 / 100	50	1.50 : 1	RMAT40.6000Nmf
	DC - 6000	30	10 / 100	50	1.50 : 1	RMAT30.6000Nmf
	DC - 4000	60	10 / 100	50	1.50 : 1	RMAT60.4000Nmf
	DC - 3000	60	100 / 1000	50	1.30 : 1	RMAT60.3000Nmf100
	DC - 3000	40	5 / 10	50	1.20 : 1	RMAT40.3000Nmf
	DC - 3000	30	50 / 100	50	1.25 : 1	RMAT30.3000Nmf50
	DC - 3000	30	25 / 50	50	1.25 : 1	RMAT30.3000Nmf25
	DC - 3000	30	5 / 10	50	1.20 : 1	RMAT30.3000Nmf
	DC - 3000	20	50 / 100	50	1.25 : 1	RMAT20.3000Nmf50
	DC - 3000	20	25 / 50	50	1.25 : 1	RMAT20.3000Nmf25
	DC - 3000	20	5 / 10	50	1.20 : 1	RMAT20.3000Nmf
	DC - 3000	15	5 / 10	50	1.20 : 1	RMAT15.3000Nmf
	DC - 3000	10	50 / 100	50	1.25 : 1	RMAT10.3000Nmf50
	DC - 3000	10	25 / 50	50	1.25 : 1	RMAT10.3000Nmf25
	DC - 3000	10	5 / 10	50	1.20 : 1	RMAT10.3000Nmf
	DC - 3000	6	5 / 10	50	1.20 : 1	RMAT6.3000Nmf
	DC - 3000	5.7	0.5 / 1	75	1.50 : 1	RMAT6.3000Nmf75
	DC - 3000	2	5 / 10	50	1.20 : 1	RMAT2.3000Nmf
	DC - 3000	1	5 / 10	50	1.20 : 1	RMAT1.3000Nmf
	DC - 2500	30	100 / 1000	50	1.15 : 1	RMAT30.2500Nmf
	617-2700	10	25	50	1.20:1	RMAT10.617-2700Nmf25
	617-2700	20	25	50	1.20:1	RMAT20.617-2700Nmf25
N Female/N Female	DC-3000	20	100	50	1.25:1	RMAT20.3000Nff100
	DC-3000	60	100	50	1.25:1	RMAT60.3000Nff100
	DC-6000	20	100	50	1.25:1	RMAT20.6000Nff100
3.5mm Male/3.5mm Female	DC - 30000	6	1 / 2	50	1.20 : 1	RMAT6.30000.35mf
	DC - 30000	3	1 / 2	50	1.20 : 1	RMAT3.30000.35mf
2.92mm Male/2.92mm Female	DC - 40000	30	1 / 10	50	1.40 : 1	RMAT30.40000.292mf
	DC - 40000	20	1 / 10	50	1.40 : 1	RMAT20.40000.292mf
	DC - 40000	10	1 / 10	50	1.40 : 1	RMAT10.40000.292mf
4.3/10 Male/ Female	DC-3000	1-20	16	50	1.20:1	RMATxx.3000.4310mf16
QMA Male/ Female	DC-6000	1-20	2	50	1.20:1	RMATxx.6000QMAmf

Notes:

- Incremental values available upon request. Adjust P/N by inserting value at xx; “RMATxx.3000”
- Alternate connector options are available upon request

TERMINATIONS

FEATURES

- Power handling from 0.5 to 250W
- Frequency coverage to 65GHz
- Custom development welcome

CONNECTORS	FREQUENCY (MHz)	POWER (W)(max)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Male	DC – 6000	1	50	1.15 : 1	RMTE.6000Sm.1
	DC-6000	20	50	1.25:1	RMTE.6000SMAm20
	DC - 8000	1	50	1.15 : 1	RMTE.8000Sm1
	DC – 18000	0.5	50	1.15 : 1	RMTE.18000Sm.05
	DC – 18000	1	50	1.15 : 1	RMTE.18000.Sm.1
	DC – 18000	2	50	1.15 : 1	RMTE.18000Sm.2
	DC – 27000	1	50	1.15 : 1	RMTE.27000Sm.1
SMA Female	DC - 8000	1	50	1.15 : 1	RMTE.8000Sf1
	DC – 18000	1	50	1.15 : 1	RMTE.18000.Sf.1
N Male	DC - 3000	250	50	1.20 : 1	RMTE.3000Nm.250
	DC - 3000	150	50	1.20 : 1	RMTE.3000Nm.150
	DC – 3000	50	50	1.15 : 1	RMTE.3000Nm.50
	DC - 3000	25	50	1.20 : 1	RMTE.3000Nm.25
	DC – 3000	10	50	1.15 : 1	RMTE.3000Nm.10
	DC - 5000	20	50	1.20 : 1	RMTE.5000Nm.20
	DC – 6000	2	50	1.20 : 1	RMTE.6000Nm.2
	DC-6000	5	50	1.25:1	RMTE.6000Nm5
	DC – 8000	2	50	1.20 : 1	RMTE.8000Nm.2
	DC-8000	50	50	1.25:1	RMTE.8000Nm50
	DC-10000	1	50	1.20:1	RMTE.10000Nm
	DC - 12400	2	50	1.20 : 1	RMTE.12400Nm.2
	DC-12400	100	50	1.20:1	RMTE.12400Nm100
	DC – 18000	2	50	1.20 : 1	RMTE.18000Nm.2
	2000-4000	100	50	1.20:1	RMTE.2000-4000Nm100
N Female	DC - 3000	250	50	1.20 : 1	RMTE.3000Nf.250
	DC - 3000	150	50	1.20 : 1	RMTE.3000Nf.150
	DC - 3000	25	50	1.20 : 1	RMTE.3000Nf.25
	DC – 3000	10	50	1.15 : 1	RMTE.3000Nf.10
	DC-6000	10	50	1.25:1	RMTE.6000Nf10
	DC-6000	20	50	1.25:1	RMTE.6000Nf20
	DC - 5000	20	50	1.20 : 1	RMTE.5000Nf.20
	DC-12400	100	50	1.20:1	RMTE.12400Nf100
	DC – 18000	2	50	1.20 : 1	RMTE.18000Nf.2
	164-174	250	50	1.15:1	RMTE.164-174Nf250
BNC Male	DC – 1000	5	75	1.20 : 1	RMTE75.1000Bm.5
	DC - 3000	10	50	1.15 : 1	RMTE.3000Bm10
	DC – 4000	2	50	1.15 : 1	RMTE.4000Bm.2
BNC Female	DC – 4000	2	50	1.15 : 1	RMTE.4000Bf.2
7/16 Male	DC – 3000	50	50	1.15 : 1	RMTE.3000.716m.50
	DC - 5000	20	50	1.20 : 1	RMTE.5000.716m.20
	DC - 7500	5	50	1.15 : 1	RMTE.7500.716m.5
	DC - 7500	2	50	1.20 : 1	RMTE.7500.716m.2
7/16 Female	DC - 5000	20	50	1.20 : 1	RMTE.5000.716f.20
	DC - 7500	2	50	1.20 : 1	RMTE.7500.716f.2
TNC Male	DC - 11000	2	50	1.15 : 1	RMTE.11000TNCm.2
	DC-18000	2	50	1.25:1	RMTE.18000.TNCm
TNC Female	DC-6000	2	50	1.25:1	RMTE.6000TNCf2
SMB Male	DC - 4000	1	50	1.25 : 1	RMTE.4000SMBm.1
MCX Male	DC - 6000	1	50	1.20 : 1	RMTE.6000MCXm.1

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TERMINATIONS

CONNECTORS	FREQUENCY (MHz)	POWER (W)(max)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SSMA Male	DC - 4000	1	50	1.20 : 1	RMTE.4000.SSMAm1
	DC - 18000	0.5	50	1.25 : 1	RMTE.18000.SSMAm
SSMA Female	DC - 4000	1	50	1.20 : 1	RMTE.4000.SSMAf1
	DC - 18000	0.5	50	1.25 : 1	RMTE.18000.SSMAf
1.85mm Male	DC - 65000	0.5	50	1.45 : 1	RMTE.65000.185m
1.85mm Female	DC - 65000	0.5	50	1.45 : 1	RMTE.65000.185f
2.4mm Male	DC - 50000	0.5	50	1.30 : 1	RMTE0.5.5000024m
2.4mm Female	DC - 50000	0.5	50	1.30 : 1	RMTE0.5.5000024f
2.92mm Male	DC - 40000	0.5	50	1.25 : 1	RMTE0.5.40000Km
2.92mm Female	DC - 40000	0.5	50	1.25 : 1	RMTE0.5.40000Kf
3.5mm Male	DC - 33000	0.5	50	1.25 : 1	RMTE0.5.33000.35m
3.5mm Female	DC - 33000	0.5	50	1.25 : 1	RMTE0.5.33000.35f
4.3/10 Male	DC-8500	10	50	1.25:1	RMTE.8500.4310m10
4.1/9.5 Male	DC-3000	10	50	1.20:1	RMTE.3000.4195m10

Notes:

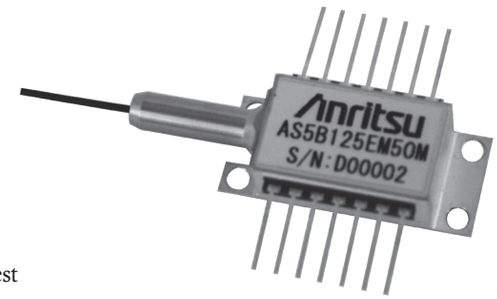
- Add “C” suffix to MODEL NUMBER for 2” bead chain and eyelet option
- Alternate connector options are available upon request

OPTICAL LASER DIODES

Based on our contractual relationship as North American Channel Partner for the **Anritsu** optical diode product line, we are pleased to offer the following high quality & performance standard product families. We also welcome the opportunity to review and discuss your custom development efforts as required. Ask for the full LD catalog.

SUPER-LUMINESCENT LASER DIODE TYPE SLD SERIES

Super-luminescent Diodes bridge the gap between Laser Diodes and Light Emitting Diodes



Like an LD, the SLD provides a high optical output power, Anritsu's SLD feature broadband spectrum characteristics, typically found only in LEDs, and a low coherence. Our SLD features a low coherence length having a high intensity at a narrow radiation angle. This makes the SLD much easier to couple to a fiber for broad range of applictions. SLDs are ideal for Optical Coherence Tomography, fiber sensors such as temperature and strain gauges, as well as applications in test and measurement instrumentation.

FEATURES

- PMF fiber coupled (AS8Y1100M30M and AS8A1123M30M)
- High optical output power
- Wide spectral half width
- Built-in monitor photo diode

SLD MODULE

MODEL NUMBER	DESCRIPTION	PACKAGE	OUTPUT POWER (mW/mA)	CENTER WAVELENGTH (nm)	SUPECTRAL WIDTH TYP (nm)	MAX TEMP (˚ C)
AS8K215GY30M	0.8um SLD CAN	CAN	6 / 120	830	15	70
AS8E210GP30M	0.8um SLD Module	Cylindrical	1.2 / 120	830	15	70
AS8B112G230M	0.8um SLD Module	Butterfly	2 / 120	830	14	70
AS8B115G230M	0.8um SLD Module	Butterfly	5 / 150	830	14	70
AS3B119GM10M	1.31um SLD Module	Butterfly	15 / 400	1310	55	75
AS5B125EM50M	1.55um SLD Module	Butterfly	25 / 500	1550	60	75
AS6B118GM50M	1.65um SLD Module	Butterfly	10 / 350	1650	70	75

OPTICAL LASER DIODES

FABRI-PERROT LASER DIODE TYPE FP-LD SERIES

The AF4B Series Fabri-Perrot type are 1.48mm high power pumping laser diode modules designed for Erdoped optical amplifiers. Each laser is packaged in a 14-pin butterfly package with optical isolator, monitor photodiode, and thermo-cooler.

Applicaitons include submarine terrestial WDM networks and FTTx/CATV systems.

FEATURES

- High optical output power (120-660 mW)
- Low power consumption
- Built-in optical isolator
- Internal monitor PD, thermo-electric cooler, and thermistor
- SMF or PMF fiber out pigtail type

1.48µm FP-LD MODULE

MODEL NUMBER WITH SMF	MODEL NUMBER WITH PMF	DESCRIPTION	PACKAGE	OUTPUT POWER (mW/mA)	CENTER WAVE-LENGTH (nm)	SPECTRAL WIDTH TYP (nm)	MAX TEMP (˚ C)
AF4B112AA75L	AF4B112AD75L	1.48um LD type A	Butterfly	120 / 500	1475 +/- 15	4	75
AF4B114AA75L	AF4B114AD75L	1.48um LD type A	Butterfly	140 / 550	1475 +/- 15	4	75
AF4B116AA75L	AF4B116AD75L	1.48um LD type A	Butterfly	160 / 600	1475 +/- 15	4	75
AF4B118AA75L	AF4B118AD75L	1.48um LD type A	Butterfly	180 / 600	1475 +/- 15	4	75
AF4B120EA75L	AF4B120ED75L	1.48um LD type B	Butterfly	200 / 700	1475 +/- 15	5	70
AF4B122EA75L	AF4B122ED75L	1.48um LD type B	Butterfly	220 / 700	1475 +/- 15	5	70
AF4B125EA75L	AF4B125ED75L	1.48um LD type B	Butterfly	250 / 800	1475 +/- 15	5	70
AF4B117EA75L	AF4B117ED75L	1.48um LD type B	Butterfly	170 / 600	1475 +/- 15	5	70
AF4B118EA75L	AF4B118ED75L	1.48um LD type B	Butterfly	180 / 600	1475 +/- 15	5	70
AF4B130CA75L	AF4B130CD75L	1.48um LD type C	Butterfly	300 / 1100	1475 +/- 15	5	70
AF4B135CA75L	AF4B135CD75L	1.48um LD type C	Butterfly	350 / 1400	1475 +/- 15	5	70
AF4B140CA75L	AF4B140CD75L	1.48um LD type C	Butterfly	400 / 1400	1475 +/- 15	5	70
AF4B150FA75L	AF4B150FD75L	1.48um LD type D	Butterfly	500 / 1800	1475 +/- 15	5	70
AF4B142FA75L	AF4B142FD75L	1.48um LD type D	Butterfly	420 / 1800	1475 +/- 15	5	70
AF4B146FA75L	AF4B146FD75L	1.48um LD type D	Butterfly	460 / 1800	1475 +/- 15	5	70
AF4Y108GA85J	-	Uncooled Type	Cylindrical	80 / 400	1478 - 1490	-	70

OPTICAL LASER DIODES (cont.)

FABRI-PERROT LASER DIODE TYPE FP-LD SERIES (cont.)

4xxnm FP-LD with FBG MODULE

MODEL NUMBER WITH PMC FIBER	DESCRIPTION	PACKAGE	OUTPUT POWER (mW/mA)	CENTER WAVE-LENGTH (nm)	SPECTRAL WIDTH TYP (nm)	MAX TEMP (˚ C)
AF4B222CUxxxF	1.4um FP-LD	Butterfly	220 / 800	1420 - 1500	max 3.5	70
AF4B226CUxxxF	1.4um FP-LD	Butterfly	260 / 950	1420 - 1500	max 3.5	70
AF4B230CUxxxF	1.4um FP-LD	Butterfly	300 / 1100	1420 - 1500	max 3.5	70
AF4B236FUxxxF	1.4um FP-LD	Butterfly	360 / 1400	1420 - 1500	max 3.5	70
AF4B240FUxxxF	1.4um FP-LD	Butterfly	400 / 1400	1420 - 1500	max 3.5	70

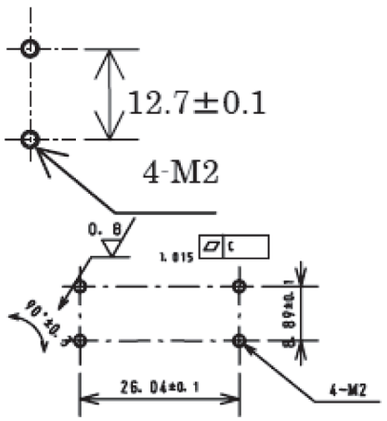
Note: xxx = Desired Wavelength (0.5nm spacing available)

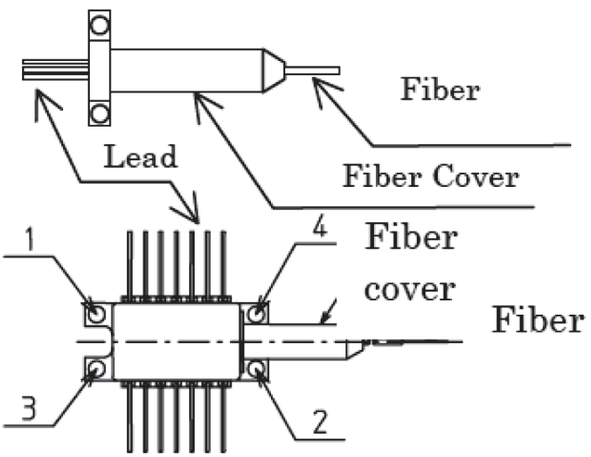
1310/1550 nm FP-LD MODULE

MODEL NUMBER WITH PMC FIBER	DESCRIPTION	PACKAGE	OUTPUT POWER (mW/mA)	CENTER WAVE-LENGTH (nm)	SPECTRAL WIDTH TYP (nm)	MAX TEMP (˚ C)
AF3B310DM10L	1.31um LD	Butterfly	100 / 500	1310 ± 15	4	70
AF3B150FM20M	1.31um LD	Butterfly	500 / 1800	1320 ± 20	5	70
AF5B310DM50L	1.55um LD	Butterfly	450 / 1800	1550 ± 15	5	70
AF5B145FM50M	1.55um LD	Butterfly	450 / 1800	1550 ± 20	5	70

Contact us for detailed installation instructions and precautions.

Suggested Mounting Layouts for Cylindrical & Butterfly Packages;





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ADAPTORS

FEATURES

- In and between series
- Frequency coverage to 60GHz
- 50 or 75 Ω impedance
- Custom development and variants welcome

QUICK CONNECT

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Female	7/16 Male push-on	DC - 5	50	1.12 : 1	RMAD.BS.716PNmf
	push-on N Male	DC - 18	50	1.15 : 1	RMAD.IS.NNPfm
SMA Female	push-on SMA Male (limited detent)	DC - 27	50	DC-18 GHz = 1.10:1 >18-27 GHz = 1.20:1	RMAD.IS.SMASMAPfmL
	push-on SMA Male (full detent)	DC - 27	50	DC-18 GHz = 1.18:1 >18-27 GHz = 1.25:1	RMAD.IS.SMASMAPfmF

SMA IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Male	SMA Female 90°	DC – 18	50	1.05 + 0.01 f (GHz)	RMAD.IS.SMAmfRA
	SMA Male 90°	DC – 18	50	1.05 + 0.01 f (GHz)	RMAD.IS.SMAmmRA
	SMA Male	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAmm
	SMA Female bulkhead	DC - 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAmfBH
	SMA Female	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAmf
	SMA Male	DC – 27	50	1.15 : 1	RMAD.IS.SMA27mm
	SMA Female	DC – 27	50	1.15 : 1	RMAD.IS.SMA27mf
	SMA Female Swept 90°	DC-18	50	1.35:1	RMAD.IS.SMAmfSRA
SMA Female	SMA Female 90°	DC – 18	50	1.05 + 0.01 f (GHz)	RMAD.IS.SMAffRA
	SMA Female bullet	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAff
	SMA Female bulkhead	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAffBH
	SMA Female bulkhead w/o ring	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAffBW
	SMA Female 4-hole flange	DC – 18	50	1.05 + 0.005 f (GHz)	RMAD.IS.SMAff4
	SMA Female/SMA Female Tee	DC - 18	50	1.20 : 1	RMAD.IS.SMAfffT
	SMA Female	DC – 27	50	1.15 : 1	RMAD.IS.SMA27ff

SMB IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMB Male	SMB Male	DC - 4	50	1.15 : 1	RMAD.IS.SMBmm
	SMB Female	DC - 4	50	1.15 : 1	RMAD.IS.SMBmf
SMB Female	SMB Female	DC - 4	50	1.15 : 1	RMAD.IS.SMBff
	SMB Male/SMB Female Tee	DC - 4	50	1.25 : 1	RMAD.IS.SMBfmfT

7/16 IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7/16 Male	7/16 Male	DC - 6	50	1.20 : 1	RMAD.IS.716mm
	7/16 Female	DC - 6	50	1.20 : 1	RMAD.IS.716mf
	7/16 Female RA	DC-6	50	1.20:1	RMAD.IS.716mfRA
7/16 Female	7/16 Female	DC - 6	50	1.20 : 1	RMAD.IS.716ff
	7/16 Female 4-hole flange	DC - 6	50	1.20 : 1	RMAD.IS.716ff4HF

TYPE N IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	N Male	DC – 1.5	75	1.05 + 0.005 f (GHz)	RMAD.IS.Nmm75
	N Male	DC – 12	50	1.05 + 0.005 f (GHz	RMAD.IS.Nmm
	N Female	DC – 12	50	1.05 + 0.005 f (GHz)	RMAD.IS.Nmf
	N Female 90º	DC – 12	50	1.05 + 0.005 f (GHz)	RMAD.IS.NmfRA
	N Female	DC - 18	50	1.15 : 1	RMAD.IS.N18mf
	N Male	DC - 18	50	1.15 : 1	RMAD.IS.N18mm
N Female	N Female bullet	DC – 1.5	75	1.05 + 0.005 f (GHz)	RMAD.IS.Nff75
	N Female 4-hole flange	DC – 10	50	1.05 + 0.005 f (GHz)	RMAD.IS.Nff4HF
	N Female bullet	DC – 12	50	1.05 + 0.005 f (GHz)	RMAD.IS.Nff
	N Female bulkhead	DC – 12	50	1.05 + 0.005 f (GHz)	RMAD.IS.NffB
	N Male / N Female Tee	DC - 12	50	1.40 : 1	RMAD.IS.NfmfT
	N Female / N Female Tee	DC - 12	50	1.40 : 1	RMAD.IS.NfffT
	N Female	DC - 18	50	1.15 : 1	RMAD.IS.N18ff
	N Female bulkhead	DC - 18	50	1.15 : 1	RMAD.IS.N18ffBH
	N Female 4-hole flange	DC - 18	50	1.15 : 1	RMAD.IS.N18ff4HF

TNC IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
TNC Male	TNC Male	DC - 4	50	1.20 : 1	RMAD.IS.TNCmm
	TNC Female	DC - 4	50	1.20 : 1	RMAD.IS.TNCmf
	TNC Female 90º	DC - 4	50	1.20 : 1	RMAD.IS.TNCmfRA
	TNC Male	DC - 18	50	1.15: 1	RMAD.IS.TNC18mm
	TNC Female	DC - 18	50	1.15: 1	RMAD.IS.TNC18mf
	TNC Female 90º	DC - 18	50	1.15: 1	RMAD.IS.TNC18mfRA
TNC Female	TNC Female	DC - 4	50	1.20 : 1	RMAD.IS.TNCff
	TNC Female Tee	DC - 4	50	1.50 : 1	RMAD.IS.TNCfff
	TNC Female bulkhead	DC – 4	50	1.20 : 1	RMAD.IS.TNCffBH
	TNC Female 4-hole flange	DC - 4	50	1.20 : 1	RMAD.IS.TNCff4HF
	TNC Male/TNC Female Tee	DC - 4	50	1.50 : 1	RMAD.IS.TNCfmf
	TNC Female	DC - 18	50	1.15: 1	RMAD.IS.TNC18ff
	TNC Female bulkhead	DC – 18	50	1.15: 1	RMAD.IS.TNC18ffBH
	TNC Female 4-hole flange	DC - 18	50	1.15: 1	RMAD.IS.TNC18ff4HF

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RPTNC IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
RPTNC Male	RPTNC Female 90°	DC – 11	50	1.20 : 1	RMAD.IS.RPTNCmfRA

MCX IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
MCX Female	MCX Female	DC – 6	50	1.20 : 1	RMAD.IS.MCXff
MCX Male	MCX Male	DC – 6	50	1.20 : 1	RMAD.IS.MCXmm

1.0/2.3 IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
1.0/2.3 Male	1.0/2.3 Male	DC - 2	75	1.20 : 1	RMAD75.IS.1023mm
	1.0/2.3 Female	DC - 2	75	1.20 : 1	RMAD75.IS.1023mf
1.0/2.3 Female	1.0/2.3 Female	DC - 2	75	1.20 : 1	RMAD75.IS.1023ff

BNC IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
BNC Male	BNC Male	DC – 1	75	1.20 : 1	RMAD.IS.BNCmm75
	BNC Female	DC – 1	75	1.20 : 1	RMAD.IS.BNCmf75
	BNC Female 90°	DC – 1	75	1.20 : 1	RMAD.IS.BNCmfRA75
	BNC Male	DC – 4	50	1.20 : 1	RMAD.IS.BNCmm
	BNC Female	DC – 4	50	1.20 : 1	RMAD.IS.BNCmf
	BNC Female 90°	DC – 4	50	1.20 : 1	RMAD.IS.BNCmfR
BNC Female	BNC Female	DC – 1	75	1.20 : 1	RMAD.IS.BNCff75
	BNC Female bulkhead	DC – 1	75	1.20 : 1	RMAD.IS.BNCffBH75
	BNC Male/BNC Female Tee	DC – 1	75	1.50 : 1	RMAD.IS.BNCfmfT75
	BNC Female	DC – 4	50	1.20 : 1	RMAD.IS.BNCff
	BNC Female bulkhead	DC – 4	50	1.20 : 1	RMAD.IS.BNCffB
	BNC Male/BNC Female Tee	DC – 4	50	1.50 : 1	RMAD.IS.BNCfmfT

SMP IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMP Female	SMP Female	DC - 40	50	1.70 : 1	RMAD.IS.SMPff
	SMP Male Limited	DC-40	50	1.70:1	RMAD.IS.SMPfmL
	SMP Male Full	DC-40	50	1.70:1	RMAD.IS.SMPfmF
SMP Male	SMP Male Limited	DC-40	50	1.70:1	RMAD.IS.SMPmmL
	SMP Male Full	DC-40	50	1.70:1	RMAD.IS.SMPmmF

1.6/5.6 IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
1.6/5.6 Male	1.6/5.6 Male	DC - 2	75	1.20 : 1	RMAD75.IS.1656mm
	1.6/5.6 Female	DC - 2	75	1.20 : 1	RMAD75.IS.1656mf
1.6/5.6 Female	1.6/5.6 Female	DC - 2	75	1.20 : 1	RMAD75.IS.1656ff

2.4mm IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.4mm Male	2.4mm Female	DC - 50	50	1.15 : 1	RMAD.IS.24mf
	2.4mm Male	DC - 50	50	1.15 : 1	RMAD.IS.24mm
2.4mm Female	2.4mm Female 4-hole flange	DC - 50	50	1.20 : 1	RMAD.IS.24ff4HF
	2.4mm Female	DC - 50	50	1.20 : 1	RMAD.IS.24ff
	2.4mm Female bulkhead	DC-50	50	1.20:1	RMAD.IS.24ffBH

2.92mm IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.9mm Male	2.92mm Female bulkhead	DC - 40	50	1.15 : 1	RMAD.IS.292mfBH
	2.92mm Female	DC - 40	50	1.15 : 1	RMAD.IS.292mf
	2.92mm Male	DC - 40	50	1.15 : 1	RMAD.IS.292mm
	2.92mm Female 90°	DC - 40	50	1.40 : 1	RMAD.IS.292mfRA
2.92mm Female	2.92mm Female	DC - 40	50	1.20 : 1	RMAD.IS.292ff
	2.92mm Female 4 hole flange	DC - 40	50	1.20 : 1	RMAD.IS.292ff4HF

NMD IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
NMD3.5mm Female	NMD3.5mm Male	DC – 26.5	50	1.15 : 1	RMAD.IS.NMD35fm
	NMD3.5mm Female	DC - 26.5	50	1.15 : 1	RMAD.IS.NMD35ff
NMD2.4mm Female	NMD2.4mm Male	DC - 50	50	1.25 : 1	RMAD.IS.NMD24fm
NMD1.85mm Female	NMD1.85mm Male	DC - 67	50	1.35 : 1	RMAD.IS.NMD185fm

3.5mm IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
3.5mm Male	3.5mm Female	DC - 33	50	1.15 : 1	RMAD.IS.35mf
	3.5mm Male	DC - 33	50	1.15 : 1	RMAD.IS.35mm
	3.5mm Female 90°	DC-33	50	1.15:1	RMAD.IS.35mfRA
3.5mm Female	3.5mm Female	DC - 33	50	1.15 : 1	RMAD.IS.35ff
	3.5 Female 4 Hole Flange	DC-33	50	1.15:1	RMAD.IS.35ff4HF

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1.85mm IN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPED-ANCE (Ω)	VSWR (max)	MODEL NUMBER
1.85mm Male	1.85mm Female	DC - 65	50	1.30 : 1	RMAD.IS.185mf
	1.85mm Male	DC - 65	50	1.30 : 1	RMAD.IS.185mm
1.85mm Female	1.85mm Female	DC - 65	50	1.30 : 1	RMAD.IS.185ff
	1.85mm Female bulkhead	DC-65	50	1.30:1	RMAD.IS.185ffBH

2.92mm/2.4mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.92mm Female	2.4mm Female	DC - 40	50	1.20 : 1	RMAD.BS.29224ff
	2.4mm Male	DC - 40	50	1.15 : 1	RMAD.BS.29224fm
2.92 mm Male	2.4mm Male	DC - 40	50	1.15 : 1	RMAD.BS.29224mm
	2.4mm Female	DC - 40	50	1.15 : 1	RMAD.BS.29224mf

2.92mm/1.85mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.92mm Female	1.85mm Female	DC - 40	50	1.15 : 1	RMAD.BS.292185ff
	1.85mm Male	DC - 40	50	1.15 : 1	RMAD.BS.292185fm
2.92mm Male	1.85mm Female	DC - 40	50	1.15 : 1	RMAD.BS.292185mf
	1.85mm Male	DC-40	50	1.15:1	RMAD.BS.292185mm

3.5mm/2.92mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
3.5mm Male	2.92mm Female	DC - 33	50	1.15 : 1	RMAD.BS.35292mf
	2.92mm Male	DC - 33	50	1.15 : 1	RMAD.BS.35292mm
3.5mm Female	2.92mm Female 4 hole flange	DC - 33	50	1.15 : 1	RMAD.BS.35292ff4HF
	2.92mm Female	DC - 33	50	1.15 : 1	RMAD.BS.35292ff
	2.92mm Male	DC - 33	50	1.15 : 1	RMAD.BS.35292fm

3.5mm/2.4mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
3.5mm Male	2.4mm Female	DC - 33	50	1.15 : 1	RMAD.BS.3524mf
	2.4mm Male	DC - 33	50	1.15 : 1	RMAD.BS.3524mm
3.5mm Female	2.4mm Female	DC - 33	50	1.15 : 1	RMAD.BS.3524ff
	2.4mm Male	DC - 33	50	1.15 : 1	RMAD.BS.3524fm
	2.4mm Female 4 hole flange	DC - 33	50	1.15 : 1	RMAD.BS.3524ff4HF

2.9mm/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.92mm Female	SMA Female	DC - 27	50	1.15 : 1	RMAD.BS.292SMA27ff
	SMA Male	DC - 27	50	1.15 : 1	RMAD.BS.292SMA27fm
	SMA Female 4 hole flange	DC - 27	50	1.15 : 1	RMAD.BS.292SMA27ff4HF
2.92 mm Male	SMA Female	DC - 27	50	1.15 : 1	RMAD.BS.292SMA27mf
	SMA Male	DC - 27	50	1.15 : 1	RMAD.BS.292SMA27mm

2.4mm/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.4mm Male	SMA Female	DC - 27	50	1.15 : 1	RMAD.BS.24SMA27mf
	SMA Male	DC - 27	50	1.15 : 1	RMAD.BS.24SMA27mm
2.4mm Female	SMA Female 4 hole flange	DC - 27	50	1.15 : 1	RMAD.BS.24SMA27ff4HF
	SMA Female	DC - 27	50	1.15 : 1	RMAD.BS.24SMA27ff
	SMA Male	DC - 27	50	1.15 : 1	RMAD.BS.24SMA27fm

SMP/2.92mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMP Female	2.92mm Female	DC - 40	50	1.20 : 1	RMAD.BS.SMP292ff
	2.92mm Male	DC - 40	50	1.20 : 1	RMAD.BS.SMP292fm
SMP Male Limited	2.92mm Female	DC - 40	50	1.20 : 1	RMAD.BS.SMP292mfL
	2.92mm Male	DC - 40	50	1.20 : 1	RMAD.BS.SMP292mmL

SMP/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMP Female	SMA Female	DC - 27	50	1.35 : 1	RMAD.BS.SMPSMAff
	SMA Male	DC - 27	50	1.35 : 1	RMAD.BS.SMPSMAfm
	SMA Female bulkhead	DC-6	50	1.20:1	RMAD.BS.SMPSMAffBH
	SMA Female bulkhead	DC-27	50	1.35:1	RMAD.BS.SMPSMAffBHa
SMP Male Limited	SMA Female	DC - 27	50	1.35 : 1	RMAD.BS.SMPSMAmfL
	SMA Male	DC - 27	50	1.35 : 1	RMAD.BS.SMPSMAmmL

2.4mm/SSMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
2.4mm Female	SSMA Female	DC - 40	50	1.20 : 1	RMAD.BS.24SSMAff
	SSMA Male	DC - 40	50	1.20 : 1	RMAD.BS.24SSMAfm
2.4mm Male	SSMA Male	DC - 40	50	1.20 : 1	RMAD.BS.24SSMAmm
	SSMA Female	DC - 40	50	1.20 : 1	RMAD.BS.24SSMAmf

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TNC/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Male	TNC Male	DC - 10	50	1.15 : 1	RMAD.BS.SMATNCmm
	TNC Male 4 hole flange	DC - 10	50	1.15 : 1	RMAD.BS.SMATNCmm4HF
	TNC Female	DC - 10	50	1.15 : 1	RMAD.BS.SMATNCmf
	TNC Male	DC - 18	50	1.15 : 1	RMAD.BS.TNCSMA27mm
	TNC Female	DC - 18	50	1.15 : 1	RMAD.BS.TNCSMA27fm
SMA Female	TNC Female	DC - 10	50	1.15 : 1	RMAD.BS.SMATNCff
	TNC Male	DC - 18	50	1.15 : 1	RMAD.BS.TNCSMA27mf
	TNC Female	DC - 18	50	1.15 : 1	RMAD.BS.TNCSMA27ff
	TNC Male	DC - 10	50	1.15 : 1	RMAD.BS.SMATNCfm
SMA Female 4HF	TNC Female	DC - 18	50	1.15 : 1	RMAD.BS.TNCSMA27ff4HF

7mm/3.5mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7mm Female	3.5mm Female	DC - 18	50	1.00 : 1	RMAD.BS.735ff
	3.5mm Male	DC - 18	50	1.15 : 1	RMAD.BS.735fm

7mm/N BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7mm Female	N Female	DC - 18	50	1.15 : 1	RMAD.BS.7N18ff
	N Male	DC - 18	50	1.15 : 1	RMAD.BS.7N18fm

7mm/2.92mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7mm Female	2.92mm Female	DC - 18	50	1.10 : 1	RMAD.BS.729ff
	2.92mm Male	DC - 18	50	1.10 : 1	RMAD.BS.729fm

7mm/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7mm Female	SMA Female	DC - 18	50	1.15 : 1	RMAD.BS.7SMAff
	SMA Male	DC - 18	50	1.15 : 1	RMAD.BS.7SMAfm

N/3.5mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	3.5mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N1835mm
	3.5mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N1835mf
N Female	3.5mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N1835ff
	3.5mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N1835fm

N/2.92mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	2.92mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N18292mm
	2.92mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N18292mf
N Female	2.92mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N18292ff
	2.92mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N18292fm

N/2.4mm BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	2.4mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N1824mf
	2.4mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N1824mm
N Female	2.4mm Female	DC - 18	50	1.15 : 1	RMAD.BS.N1824ff
	2.4mm Male	DC - 18	50	1.15 : 1	RMAD.BS.N1824fm

N/TNC BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	TNC Female	DC - 11	50	1.15 : 1	RMAD.BS.NTNCmf
	TNC Female 90°	DC - 11	50	1.20 : 1	RMAD.BS.NTNCmfRA
	TNC Female	DC - 18	50	1.15 : 1	RMAD.BS.N18TNCmf
	TNC Male	DC - 18	50	1.15 : 1	RMAD.BS.N18TNCmm
N Female	TNC Female 4-hole flange	DC – 11	50	1.15 : 1	RMAD.BS.NTNCff4HF
	TNC Female	DC - 18	50	1.15 : 1	RMAD.BS.N18TNCff
	TNC Male	DC - 18	50	1.15 : 1	RMAD.BS.N18TNCfm

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N/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	SMA Female	DC - 18	50	1.15 : 1	RMAD.BS.N18SMA27mf
	SMA Male	DC - 18	50	1.15 : 1	RMAD.BS.N18SMA27mm
	SMA Male	DC - 10	50	1.20 : 1	RMAD.BS.SMANmm
	SMA Female	DC - 10	50	1.20 : 1	RMAD.BS.SMANfm
	RPSMA Male	DC - 10	50	1.30 : 1	RMAD.BS.NRPSMAmm
N Female	SMA Female 4-hole flange	DC - 10	50	1.20 : 1	RMAD.BS.NSff4HF
	SMA Female bulkhead	DC - 12	50	1.20 : 1	RMAD.BS.NSffBa
	SMA Female	DC - 18	50	1.15 : 1	RMAD.BS.N18SMA27ff
	SMA Male	DC - 18	50	1.15 : 1	RMAD.BS.N18SMA27fm
	SMA Female 4-hole flange	DC - 18	50	1.15 : 1	RMAD.BS.N18SMA27ff4HF
	SMA Male	DC - 10	50	1.20 : 1	RMAD.BS.SMANmf
	SMA Female	DC - 10	50	1.20 : 1	RMAD.BS.SMANff
N Female bulkhead	SMA Female	DC - 8	50	1.20 : 1	RMAD.BS.SNffB
N Female 4 hole flange	SMA Female	DC - 10	50	1.20 : 1	RMAD.BS.SMANff4HF

N/1.0/2.3 BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	1.0/2.3 Female	DC - 10	50	1.25 : 1	RMAD.BS.N1023mf

SMA/1.0/2.3 BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
1.0/2.3 Male	SMA Female	DC - 8	50	1.30 : 1	RMAD.BS.1023SMAmf
1.0/2.3 Female	SMA Male	DC - 8	50	1.30 : 1	RMAD.BS.1023SMAfm

SMA/BNC BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Male	BNC Male	DC - 8	50	1.05 + 0.005 f (GHz)	RMAD.BS.SMABNCmm
	BNC Female	DC - 8	50	1.05 + 0.005 f (GHz)	RMAD.BS.SMABNCmf
SMA Female	BNC Female	DC - 6	50	1.05 + 0.005 f (GHz)	RMAD.BS.SMABNCff
	BNC Male	DC - 8	50	1.05 + 0.005 f (GHz)	RMAD.BS.SMABNCfm

SMA/MCX BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
SMA Female	MCX Male	DC - 6	50	1.20 : 1	RMAD.BS.SMAMCXfm
	MCX Male 90°	DC-6	50	1.20:1	RMAD.BS.SMAMCXfmRA
SMA Male	MCX Female	DC-6	50	1.20:1	RMAD.BS.SMAMCXmf

7/16/N BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7/16 Male	N Male	DC - 6	50	1.20 : 1	RMAD.BS.716Nmm
	N Female	DC - 6	50	1.20 : 1	RMAD.BS.716Nmf
	N Female 90°	DC-6	50	1.30:1	RMAD.BS.716NmfRA
7/16 Female	N Female	DC - 6	50	1.20 : 1	RMAD.BS.716Nff
	Male	DC - 6	50	1.20 : 1	RMAD.BS.716Nfm

N/BNC BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
N Male	BNC Female	DC - 6	50	1.20 : 1	RMAD.BS.NBNCmf
	BNC Male	DC - 6	50	1.20 : 1	RMAD.BS.NBNCmm
N Female	BNC Male	DC - 6	50	1.20 : 1	RMAD.BS.NBNCfm
	BNC Female	DC - 6	50	1.20 : 1	RMAD.BS.NBNCff

4.1/9.5/N BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
4.1/9.5 Male	N Female 90°	DC - 6	50	1.20 : 1	RMAD.BS.4195NmfRA
	N Female	DC-6	50	1.20:1	RMAD.BS.4195Nmf
4.1/9.5 Female	N Male	DC-6	50	1.20:1	RMAD.BS.4195Nfm

7/16/SMA BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
7/16 Female	SMA Female	DC - 6	50	1.2 : 1	RMAD.BS.716Sff

4.3/10/N BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
4.3/10 Female	N Male	DC - 6	50	1.30:1	RMAD.BS.4310Nfm
	N Female	DC-6	50	1.30:1	RMAD.BS.4310Nff
4.3/10 Male	N Female	DC-6	50	1.30:1	RMAD.BS.4310Nmf
	N Female 90°	DC-6	50	1.30:1	RMAD.BS.4310NmfRA

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MCX/MMCX BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
MCX Male	MMCX Female	DC - 6	50	1.2 : 1	RMAD.BS.MCX.MMCXmm

1.0/2.3, BNC, 1.6/5.6 BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
1.0/2.3	1.6/5.6	DC - 2	75	1.20 : 1	RMAD.BS.10231656xx
	BNC	DC - 2	75	1.20 : 1	RMAD.BS.1023BNCxx
1.6/5.6	BNC	DC - 2	75	1.20 : 1	RMAD.BS.1656BNCxx

NMD BETWEEN-SERIES

CONNECTOR 1	CONNECTOR 2	FREQUENCY (GHz)	IMPEDANCE (Ω)	VSWR (max)	MODEL NUMBER
NMD3.5mm Female	N18 Male	DC – 18	50	1.15 : 1	RMAD.BS.NMD35Nfm
	N18 Female	DC - 18	50	1.15 : 1	RMAD.IS.NMD35Nff
NMD2.92mm Female	NMD3.5mm Male	DC - 26.5	50	1.15 : 1	RMAD.IS.NMD29NMD35fm
	3.5mm Male	DC - 26.5	50	1.15 : 1	RMAD.IS.NMD2935ff
NMD2.4mm Female	2.4 Female	DC - 50	50	1.25 : 1	RMAD.IS.NMD2424ff
	NMD2.92mm Male	DC - 40	50	1.20 : 1	RMAD.IS.NMD24NMD29fm
	2.92mm Female	DC - 40	50	1.20 : 1	RMAD.IS.NMD2429ff
	NMD3.5mm Male	DC - 26.5	50	1.15 : 1	RMAD.IS.NMD24NMD35fm
	3.5mm Female	DC - 26.5	50	1.15 : 1	RMAD.IS.NMD2435ff
NMD1.85mm Female	1.85mm Female	DC - 67	50	1.35 : 1	RMAD.IS.NMD185185ff
	NMD2.4mm Male	DC - 50	50	1.25 : 1	RMAD.IS.NMD185NMD24fm
	2.4mm Female	DC - 50	50	1.25 : 1	RMAD.IS.NMD18524ff

Notes:

- We can provide any adaptor combination
- Please inquire for your exact needs
- Custom adaptor kits available upon request

CREATE-AN-ADAPTOR

We can offer almost any combination of in or between series adaptors so use the following basic guidelines and ask us to quote, at which time formal P/N will be supplied.

P/N Example: RMAD.BS.SMABNCmmRA

Logic :

RMAD = base prefix for all adaptors
RMAD.BS = Series (in or between)
RMAD.BS.SMA = Connector Family 1
RMAD.BS.SMABNC = Connector Family 2
RMAD.BS.SMABNCm = Connector 1 gender
RMAD.BS.SMABNCmm = Connector 2 gender
RMAD.BS.SMABNCmmRA = Configuration (R/A, 4HF, BH)

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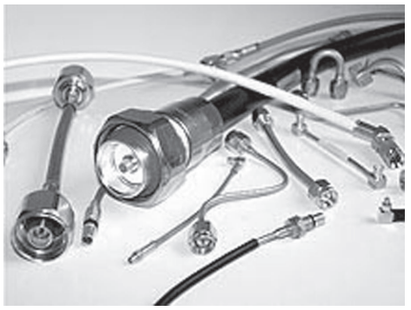
CABLE ASSEMBLY SOLUTIONS



Anchored by our strategic relationships with several global connector manufacturers, Response Microwave offers a complete line of high quality, cost effective cable assemblies for use in your commercial or military environment. From quick reaction prototypes to full rate production, we can service your complete cabling needs.

Our complete cable assembly capability includes everything from 0.047" semi rigid up through 1 5/8" corrugated. We offer coaxial impedance values at 50 and 75ohms as well as providing fiber optic, power and multi-stranded cable assemblies. Selection of the connector and cable depends on their mechanical and electrical compatibility. We will provide cable suggestions as required.

Custom variants are considered upon request. Please forward your specific requirements and we will respond with a price and technical quotation accordingly. Sketches or formal SCD's are always welcome.

GENERAL CONSIDERATIONS

ELECTRICAL

The operating **FREQUENCY**, **INSERTION LOSS**, **VSWR** and **POWER** requirements are key factors in determining your optimum assembly as cable and connector selection will be driven by these elements.

Other factors may be electrical length, phase or delay time, all of which are directly related/affected by the selected cables velocity of propagation and associated operating frequency.

MECHANICAL

There are several ways to define cable length based on specific application needs;

a) Overall = distance from connector end face to connector end face
b) Between Connectors = distance from back end of connector to back end of connector
c) Reference Plane = Distance from connector center line to connector center line

Unless specified otherwise, supplied cables will be based on overall length condition. In any case, specified standard tolerance will apply unless otherwise specified.

Pre-formed cables can be supplied upon receipt of your defined routing for required bends and shapes. Associated tolerances will be discussed during the quote phase and a mechanical drawing will be presented and/or agreed upon prior to build.

Connector definition is often overlooked but is an integral and important part of your assembly. Please be sure to advise the following elements relative to the required series of connector A and connector B of your assembly;

GENDER	**CONFIGURATION**
Male	Straight
Female	Right Angle
Reverse Polarity Male	Bulkhead
Reverse Polarity Female	Flanged (2 or 4 hole)

It is also important to specify required orientation of any D-flats and right angles of a given connector relative to the corresponding connector.

ENVIRONMENTAL

All cables are not created equally, so please make us aware of any special requirements based on the environment your cable will ultimately be exposed to so proper materials and conditioning can be considered.

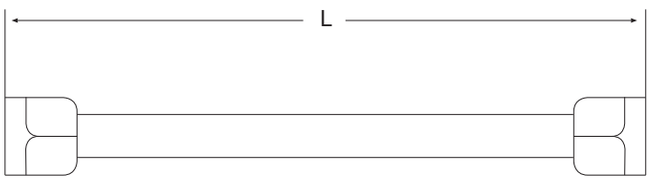
HOW TO SPECIFY YOUR CABLE ASSEMBLY

Be sure to define the following elements to insure an accurate quotation;

- Connector A + cable type + Connector B
- Cable length (overall or between connectors)
- Any specific electrical requirements (keys: frequency, phase, loss)
- Any specific environmental requirements (keys: temperature)
- Any specific mechanical requirements (keys: forming, flexibility, sleeving)
- Any specific marking/labeling requirements (keys: P/N, length, phase)

GENERAL NOTES

1. Standard length tolerance is +/-1%
2. Unless specified otherwise, length will be calculated as overall



CREATE-A-CABLE CABLE ASSEMBLY PART NUMBER SYSTEM

In order to facilitate description of your required cable, please use the following logic when requesting a quotation;

P/N Example: RMCA12.C402.SMANmfRABH

Logic :

RMCA = base prefix for all cables
RMCA12. = length in inches (12")
RMCA12.C402. = cable type (conformable402)
RMCA12.C402.SMA = connector 1 (SMA)
RMCA12.C402.SMAN = connector 2 (type N)
RMCA12.C402.SMANm = gender of connector 1 (male)
RMCA12.C402.SMANmf = gender of connector 2 (female)
RMCA12.C402.SMANmfRA = configuration of connector 1 (right angle)
RMCA12.C402.SMANmfRABH = configuration of connector 2 (bulkhead)

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CABLE ASSEMBLY SOLUTIONS

Following are samples of **FIBER OPTIC, COAXIAL**, and **MULTI-PIN** product availability:

FIBER OPTIC

CONNECTOR SERIES	CABLE FAMILIES
SC	Single Mode
FC	Multi Mode
LC	Glass - 0.9mm/2mm/3mm
ST	Plastic - 2.2mm
MU	
E2000	
SMA (optic)	

COAXIAL

CONNECTOR SERIES - 50 ohm	CONNECTOR SERIES - 75 ohm	CABLE FAMILIES
SMA & (RP)	MCX	Semi-Rigid
SSMA	1.0/2.3	Conformable
SMB	1.6/5.6	Flexible
SMC	BNC	Corrugated
SMP	SMZ	Multi Strand
SSMP	F	Low Loss, Phase Stable Armored
1.0/2.3	BT43	Bundled
MC CARD	N	Nomex Armored
MCX		Flexopet Armored
MMCX		TWIN AX
MMBX		TRI AX
BMA		
BNC & (RP)		
N		
TNC & (RP)		
7/16		
4.1/9.5		
4.3/10		
7/8 EIA		
U.FL		
Push-on SMA, N, 7/16 & TNC		
3.5mm		
2.92mm		
2.4mm		
1.85mm		
1.0mm		
7MM		
NMD Series		

MULTI-PIN

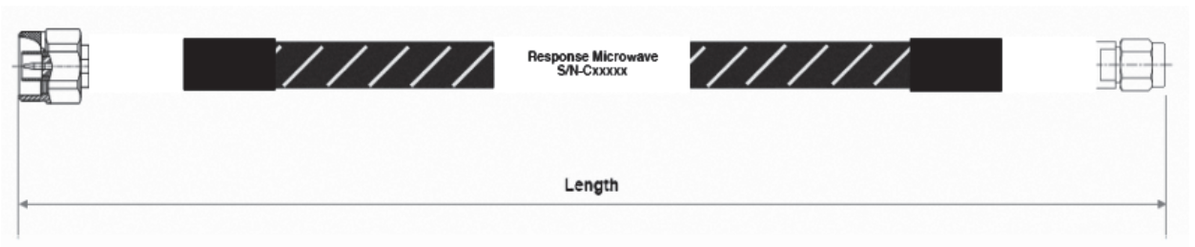
CONNECTOR SERIES	CABLE FAMILIES
D-SUB	Single Strand
DIN41612	Multi Strand
METRIC	Bundled
D38999	

TESTCABLZ™
PRECISION CABLE ASSEMBLIES

We provide a vast array of precision test cables operating from DC-110GHz based on varied industry demands. The following table provides a broad overview of available series to serve your applications. We have options that are tailored for specific parameters such as low loss, phase stability, high flexure, crush resistance, high power and low VSWR so please allow us the opportunity to address your specific needs by contacting us with your unique specifications. We will reply with a formal quotation and data sheet.

SERIES	FREQUENCY COVERAGE	AVAILABLE CONNECTORS
TCBLZ2	*DC-18GHz*	*SMA, N, BNC, TNC*
TCBLZ5	*DC-18GHz*	*SMA, N, BNC, TNC*
TCBLZG9	*DC-20GHz*	*SMA*
TCBLZJ9	*DC-26.5GHz*	*SMA, 3.5mm*
TCBLZ29	*DC-33GHz*	*3.5mm, 2.92mm*
TCBLZA88	*DC-40GHz*	*2.92mm*
TCBLZJ7	*DC-40GHz*	*2.92mm*
TCBLZG7	*DC-40GHz*	*2.92mm*
TCBLZC2	*DC-40GHz*	*2.92mm*
TCBLZG0	*DC-50GHz*	*2.4mm*
TCBLZJ6	*DC-60GHz*	*2.92mm, 1.85mm*
TCBLZ61	*DC-67GHz*	*2.92mm, 1.85mm*
TCBLZ70	*DC-110GHz*	*1.0mm*

Custom connector options available on request
Typical cable length is specified as overall from connector face to connector face



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TESTCABLZ™

TESTCABLZ™ - BLU402

FEATURES

- Robust connector attachment
- RoHs compliant
- Frequency coverage DC-18GHz coverage
- 1.20 : 1 max VSWR
- Operating temperature range -55ºC to +200ºC

CABLE PARAMETERS

Electrical

ITEM	SPECIFICATION
Operating frequency	DC-18GHz
Dielectric resistance	1000MΩ/km minimum
Test voltage	5000 Vrms
Continuous working voltage	1900 Vrms
Velocity of propagation	69.5% nominal
Capacitance	29.9 pF/ft maximum
Leakage	-110dBc
Phase Stability	+/- 3°
Charcteristic impedance	50 +/- 2Ω
Weight, approximate	43.6 kg/km
Attenuation, maximum	8dB/100ft (0.26dB/m) @400MHz 13dB/100ft (0.43dB/m) @ 1GHz 23dB/100ft (0.75dB/m) @ 3GHz 30dB/100ft (0.98dB/m) @5GHz 45dB/100ft (1.48dB/m) @10GHz 64dB/100ft (2.10dB/m) @18GHz

Mechanical

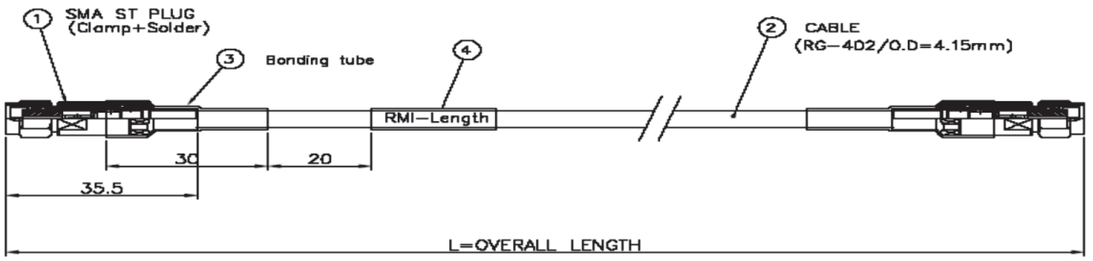
ITEM	MATERIAL	DIAMETER
Center conductor	SPCW	0.036” (0.92mm)
Dielectric resistance	PTFE	0.117” (2.97mm)
Inner shield	SPC tape	0.128” (3.25mm)
Braid	SPC	0.141” (3.58mm)
Jacket	FEP	0.163” (4.14mm)

TESTCABLZ™

TESTCABLZ™ - BLU402 (cont.)

The Series

RMI PART NUMBER	OVERALL LENGTH	CONNECTORS
RMCA.12.TCBLZ2.Smm	12	SMA Male/Male
RMCA.18.TCBLZ2.Smm	18	SMA Male/Male
RMCA.24.TCBLZ2.Smm	24	SMA Male/Male
RMCA.36.TCBLZ2.Smm	36	SMA Male/Male
RMCA.48.TCBLZ2.Smm	48	SMA Male/Male
RMCA.12.TCBLZ2.SNmm	12	SMA Male/N Male
RMCA.18.TCBLZ2.SNmm	18	SMA Male/N Male
RMCA.24.TCBLZ2.SNmm	24	SMA Male/N Male
RMCA.36.TCBLZ2.SNmm	36	SMA Male/N Male
RMCA.48.TCBLZ2.SNmm	48	SMA Male/N Male
RMCA.12.TCBLZ2.Nmm	12	N Male/Male
RMCA.18.TCBLZ2.Nmm	18	N Male/Male
RMCA.24.TCBLZ2.Nmm	24	N Male/Male
RMCA.36.TCBLZ2.Nmm	36	N Male/Male
RMCA.48.TCBLZ2.Nmm	48	N Male/Male



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TESTCABLZ™

TESTCABLZ™ - BLU405

FEATURES

- Robust connector attachment
- RoHs compliant
- Frequency coverage DC-18GHz coverage
- 1.20 : 1 max VSWR
- Operating temperature range -55°C to +200°C

CABLE PARAMETERS

Electrical

ITEM	SPECIFICATION
Operating frequency	DC-18GHz
Dielectric resistance	1000MΩ/km minimum
Test voltage	5000 Vrms
Continuous working voltage	1900 Vrms
Velocity of propagation	69.5% nominal
Capacitance	32 pF/ft maximum
Leakage	-110dBc
Phase Stability	+/- 3°
Charcteristic impedance	50 +/- 2Ω
Weight, approximate	19.1 kg/km
Attenuation, maximum	14dB/100ft (0.46dB/m) @400MHz 23dB/100ft (0.75dB/m) @ 1GHz 39dB/100ft (1.28dB/m) @ 3GHz 52dB/100ft (1.71dB/m) @5GHz 80dB/100ft (2.62dB/m) @10GHz 110dB/100ft (3.61dB/m) @18GHz

Mechanical

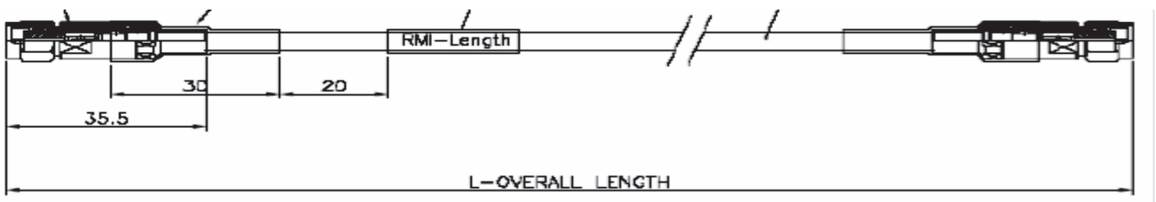
ITEM	MATERIAL	DIAMETER
Center conductor	SPCW	0.02” (0.511mm)
Dielectric resistance	PTFE	0.064” (1.63mm)
Inner shield	SPC tape	0.071” (1.80mm)
Braid	SPC	0.086” (2.18mm)
Jacket	FEP	0.104” (2.64mm)

TESTCABLZ™

TESTCABLZ™ - BLU405 (cont.)

The Series

RMI PART NUMBER	OVERALL LENGTH	CONNECTORS
RMCA.12.TCBLZ5.Smm	12	SMA Male/Male
RMCA.18.TCBLZ5.Smm	18	SMA Male/Male
RMCA.24.TCBLZ5.Smm	24	SMA Male/Male
RMCA.36.TCBLZ5.Smm	36	SMA Male/Male
RMCA.48.TCBLZ5.Smm	48	SMA Male/Male
RMCA.12.TCBLZ5.SNmm	12	SMA Male/N Male
RMCA.18.TCBLZ5.SNmm	18	SMA Male/N Male
RMCA.24.TCBLZ5.SNmm	24	SMA Male/N Male
RMCA.36.TCBLZ5.SNmm	36	SMA Male/N Male
RMCA.48.TCBLZ5.SNmm	48	SMA Male/N Male
RMCA.12.TCBLZ5.Nmm	12	N Male/Male
RMCA.18.TCBLZ5.Nmm	18	N Male/Male
RMCA.24.TCBLZ5.Nmm	24	N Male/Male
RMCA.36.TCBLZ5.Nmm	36	N Male/Male
RMCA.48.TCBLZ5.Nmm	48	N Male/Male



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TESTCABLZ™ - Y4

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.290" outer diameter
DC-18GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA18.TCBLZY4.SMAmm	SMA male + 18" TCBLZY4 cable + SMA male

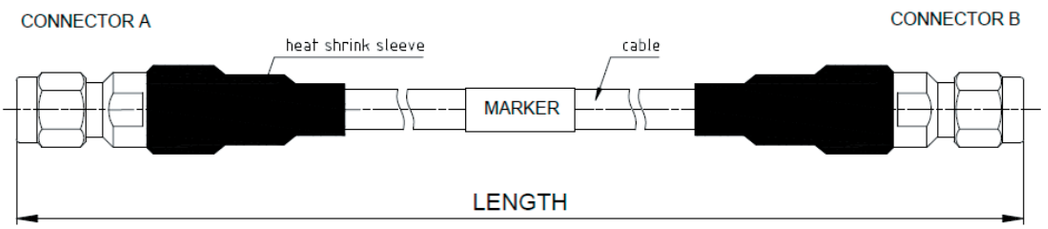
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.25:1
Insertion Loss, max	0.82dB
Power, max	80W
Voltage max	3000vrms
Phase stability vs flexure	+/-3°
Capacitance	87pf/mt
Shielding	110dB

MECHANICAL

ITEM	MATERIAL
Center conductor	Ag-plated Cu
Dielectric	LDPTFE
Outer conductor & shield	Ag-plated Cu Tape & braind
Jacket	FEP
Min centerline bend radius	42mm/1.65"

MECHANICAL



TESTCABLZ™ - G9

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.190" outer diameter
DC-20GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA12.TCBLZG9.SMAmm	SMA male + 12" TCBLZG9 cable + SMA male

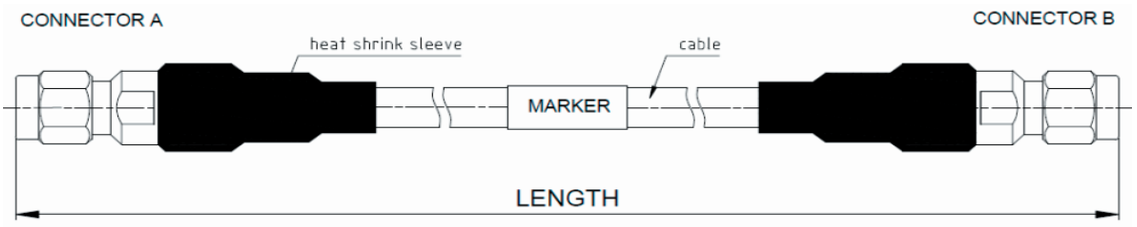
ELECTRICAL SPECIFICATION

PARAMETER	SPECIFICATION
Frequency	DC-20GHz
VSWR	1.25:1 max
Insertion Loss	0.66dB max
Phase Stability	+/-2°

MECHANICAL

PARAMETER	SPECIFICATION
Outer Diameter	4.8mm (0.190")
Minimum Bend Radius	25.4mm (1.0")
Length	L=12"
Temperature	-55°C to +125°C
Connector A	SMA male
Connector B	SMA male

TYPICAL OUTLINE



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TESTCABLZ™ - J9

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Phase stable over temperature and flexure
DC-26.5GHz coverage
-55°C to +125°C operating temperature

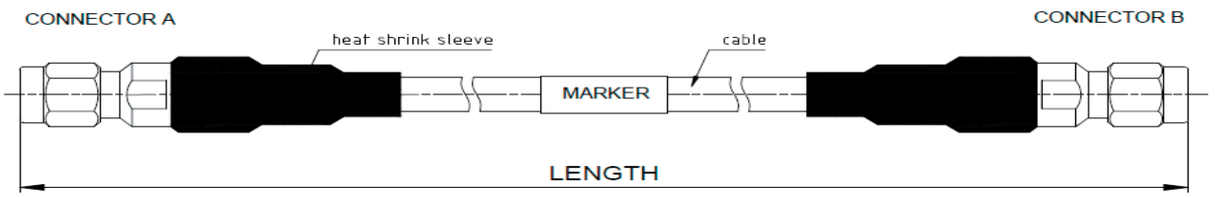
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.30:1
Insertion Loss, max @26.5GHz	0.37dB/ft
Power, max	80W
Voltage max	1000vrms
Phase stability vs flexure	+/-3°
Capacitance	87pf/mt
Shielding	105dB
Velocity of Propagation	83%

MECHANICAL

ITEM	MATERIAL	DIAMETER
Center conductor	Ag-plated Cu	1.4mm/0.055"
Dielectric	LDPTFE	3.8/0.150"
Outer conductor & shield	Ag-plated Cu Tape & braid	4.0/0.157"
Jacket	FEP	4.8mm/0.189"
Min centerline bend radius	n/a	25.4mm/1.0"

TYPICAL OUTLINE



TESTCABLZ™ - 29

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Semi-Flexible 0.168" outer diameter
DC-33GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA48.TCBLZ29.292mm	2.92 male + 48" TCBLZ29 cable + 2.92 male

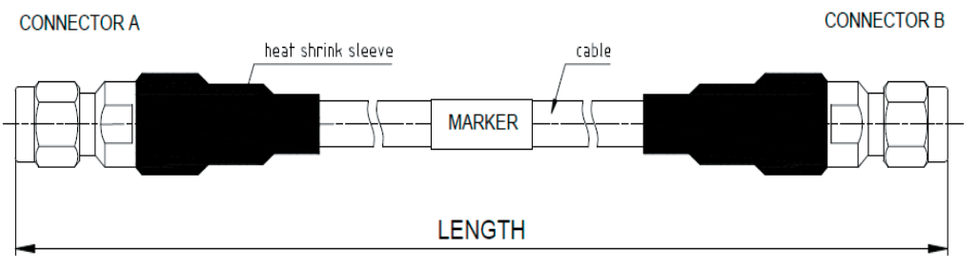
ELECTRICAL SPECIFICATION

CHARACTERISTIC	@14.5GHz
VSWR, max	1.20:1
Insertion Loss, max	2.4dB
Power, max	80W
Voltage max	1000vrms
Phase Stability vs. flexure	+/-3°
Velocity of Propogation	70%
Capacitance	95pf/mt
Shielding	>95dB
Characteristic Imedance	50Ω

MECHANICAL

ITEM	MATERIAL
Center conductor	Ag-plated Cu
Dielectric	Laminated PTFE
Inner shield layer	Ag-plated Cu foil
Outer shield layer	Ag-plated Cu braid
Jacket	FEP
Min ceterline bend radius	10mm

TYPICAL OUTLINE



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TESTCABLZ™ - A88

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.162" outer diameter
DC-40GHz coverage
-65°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION	LOSS, MAX
RMCA12.TCBLZA88.292mm	2.92 male + 12" TCBLZA88 cable + 2.92 male	0.905dB
RMCA24.TCBLZA88.292mm	2.92 male + 24" TCBLZA88 cable + 2.92 male	1.70dB
RMCA36.TCBLZA88.292mm	2.92 male + 36" TCBLZA88 cable + 2.92 male	2.50dB

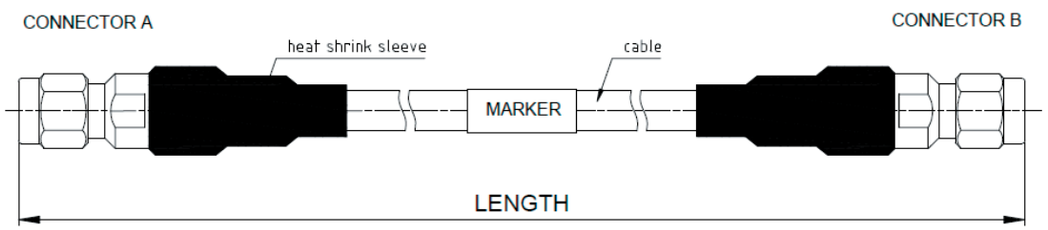
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.45:1
Cable Insertion Loss, max	0.672dB/ft
Amplitude Stability	+/-0.1dB
Power, max	100W
Voltage max	1000vrms
Phase stability vs flexure	+/-5°
Capacitance	26pf/mt
Shielding	>100dB

MECHANICAL

ITEM	MATERIAL	DIAMETER
Center conductor	Ag-plated Cu/steel	0.912mm/0.036"
Dielectric	PTFE	2.65mm/0.104"
Outer conductor & shield	Ag-plated Cu Tape & braid	3.43mm/0.135"
Jacket	FEP	4.1mm/0.162"
Min centerline bend radius	n/a	1.0"

TYPICAL OUTLINE



TESTCABLZ™ - J7

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.142" outer diameter
DC-40GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION	LOSS, MAX
RMCA12.TCBLZJ7.292mm	2.92 male + 12" TCBLZJ7 cable + 2.92 male	1.86dB
RMCA24.TCBLZJ7.292mm	2.92 male + 24" TCBLZJ7 cable + 2.92 male	2.64dB
RMCA36.TCBLZJ7.292mm	2.92 male + 36" TCBLZJ7 cable + 2.92 male	3.42dB

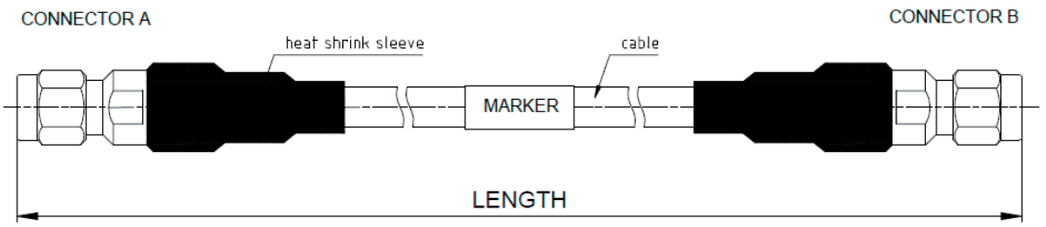
ELECTRICAL SPECIFICATION

CHARACTERISTIC	SPECIFICATION
VSWR, max	1.20:1
Cable Insertion Loss, max	2.56dB/mt
Power, max	80W
Voltage max	1000vrms
Phase Stability vs. flexure	+/-3°
Capacitance	87pf/mt
Shielding	95dB

MECHANICAL

ITEM	MATERIAL	DIAMETER
Center conductor	Ag-plated Cu	1.42mm/0.056"
Dielectric	LDPTFE	4.25mm/0.167"
Outer conductor & shield	Ag-plated Cu Tape & braid	4.90mm/0.193"
Jacket	FEP	3.60mm/0.142"
Min ceterline bend radius	1.0"	n/a

TYPICAL OUTLINE



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TESTCABLZ™ - G7

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible outer diameter
DC-40GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA300.TCBLZG7.292mm	2.92 male + 25' TCBLZG7 cable + 2.92 male

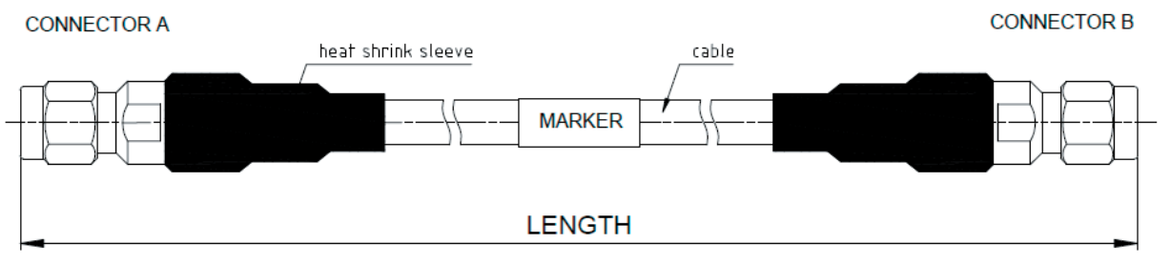
ELECTRICAL SPECIFICATION

CHARACTERISTICS	25'
Frequency	DC-40GHz
VSWR, max	1.30:1
Insertion Loss, max	19.87dB/ft
Power, max	80W
Voltage max	1000vrms
Phase stability vs flexure	+/-3°
Capacitance	87pf/mt
Shielding	150dB

MECHANICAL

ITEM	MATERIAL	DIAMETER
Outer Jacket	FEP	3.6mm
Mid centerline bend radius	n/a	25.4mm

TYPICAL OUTLINE



TESTCABLZ™ - C2

FEATURES:
Robust connector attachment
Custom lengths available
2.92mm, SMA, N & 3.5mm connectors
Hand comfortable 0.085" outer diameter
DC-40GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA12.TCBLZC2.292mm	2.92mm male to 2.92mm male, 12 in

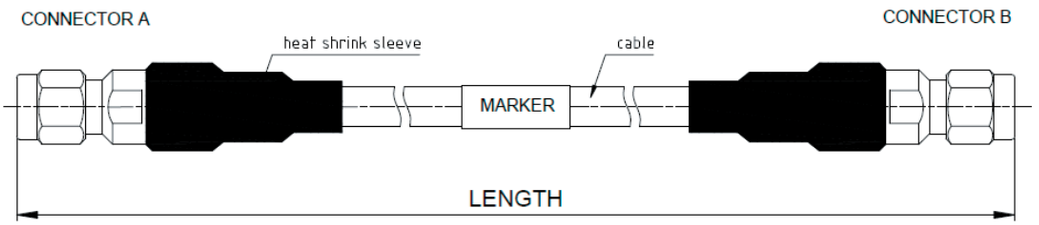
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.30:1
Insertion Loss, max	1.3dB/mt
Power, max	270W
Voltage max	1500vrms
Velocity of propogation	70%
Capacitance	32pf/ft
Shielding	110dB

MECHANICAL

ITEM	MATERIAL
Center conductor	Ag-plated Cu
Dielectric	PTFE
Jacket	Tin plated copper braid
Mid centerline bend radius	7.63mm

TYPICAL OUTLINE



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TESTCABLZ™ - 61

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Double sheilded 0.104" OD
Highly Flexible (100,000 flex cycles)
DC-67GHz coverage
-50°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA12.TCBLZC2.292mm	2.92mm male + TCBLZ261 cable +2.92mm male

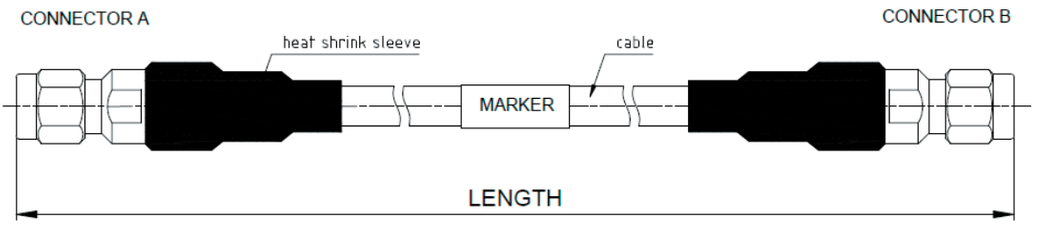
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.40:1
Cable Insertion Loss, max	2.15dB
Amplitude stability	+/-0.1dB
Power, max	30W
Voltage max	1000vrms
Phase stability vs. flexure	+/-8°
Capacitance	89pf/mtr
Shielding	>110dB

MECHANICAL

ITEM	MATERIAL
Velocity of Propagation	75%
Mid centerline bend radius	0.5"

TYPICAL OUTLINE



TESTCABLZ™ - G0

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible outer diameter
DC-50GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION	INSERTION LOSS
RMCA79.TCBLZG0.24mm	2.4 male to 2.4mm male, 2 meters	7.82dB max
RMCA118.TCBLZG0.24mm	2.4 male to 2.4mm male, 3 meters	11.44dB max
RMCA197.TCBLZG0.24mm	2.4 male to 2.4mm male, 5 meters	18.69dB max
RMCA275.TCBLZG0.24mm	2.4 male to 2.4mm male, 7 meters	25.94dB max
RMCA394.TCBLZG0.24mm	2.4 male to 2.4mm male, 10 meters	36.81dB max

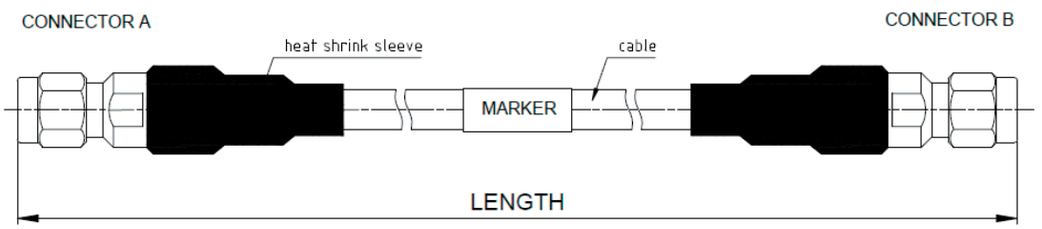
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
Frequency	DC-50GHz
VSWR, max	1.35:1
Insertion Loss, max	See table
Power, max	50W
Voltage max	1000vrms
Phase stability vs flexure	+/-4°
Shielding	150dB

MECHANICAL

ITEM	MATERIAL	DIAMETER
Outer Jacket	nomex	7.4mm
Mid centerline bend radius	n/a	25.4mm

TYPICAL OUTLINE



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TESTCABLZ™ - J6

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.086" outer diameter
DC-60GHz coverage
-55°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION	Insertion Loss
RMCA12.TCBLZJ6.185mm	1.85mm male + 12" TCBLZJ6 cable + 1.85mm male	3.74dB max
RMCA24.TCBLZJ6.185mm	1.85mm male + 24" TCBLZJ6 cable + 1.85mm male	5.71dB max
RMCA36.TCBLZJ6.185mm	1.85mm male + 36" TCBLZJ6 cable + 1.85mm male	7.67dB max

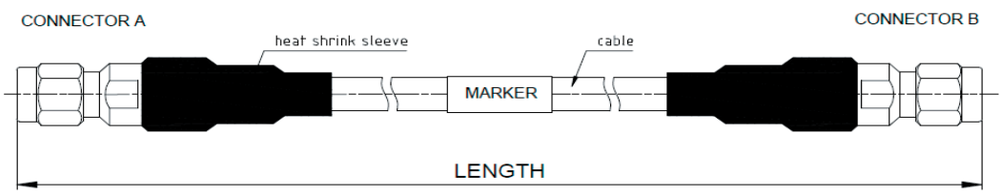
ELECTRICAL SPECIFICATION

CHARACTERISTICS	SPECIFICATION
VSWR, max	1.40:1
Insertion Loss, max	See table
Power, max	25W
Voltage max	1000vrms
Phase stability vs flexure	+/-3°
Capacitance	30pf/mt
Shielding	105dB

MECHANICAL

ITEM	MATERIAL	DIAMETER
Center conductor	Ag-plated Cu	
Dielectric	LDPTFE	
Outer conductor & shield	Ag-plated Cu Tape & braid	
Jacket	FEP	2.2mm/0.086"
Mid centerline bend radius	n/a	36mm/1.4"

TYPICAL OUTLINE



TESTCABLZ™ - 70

FEATURES:
Robust connector attachment
Custom lengths & varied connector series available
Flexible 0.181" outer diameter
DC-110GHz coverage
-65°C to +125°C operating temperature

PART NUMBER EXAMPLE

P/N	DESCRIPTION
RMCA10.TCBLZ70.10mf	1.0mm male + 10" TCBLZ70 cable + 1.0mm female

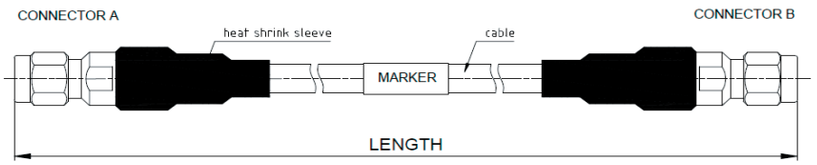
ELECTRICAL SPECIFICATION

CHARACTERISTIC	SPECIFICATION
VSWR, max	1.50:1
Insertion Loss, max	5.1dB
Power, max	80W
Voltage max	1000vrms
Phase Stability vs. flexure	+/-3°
Velocity of Propogation	70%
Capacitance	85pf/mt
Shielding	>95dB
Characteristic Imedance	50Ω

MECHANICAL

ITEM	MATERIAL
Center conductor	Ag-plated Cu
Dielectric	Porous PTFE
Outer shield layer	Steel braid
Jacket	FEP
Min ceterline bend radius	0.394"
Coupling Torque, nom	45N.cm

TYPICAL OUTLINE



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eCABLZ™ - VNA

FEATURES:
Nomex Braided outer jacket
Phase & amplitude stable
Economical price point
Available with N, SMA, 35mm, 2.92mm, 7mm

PART NUMBER EXAMPLE

P/N
RMCA36.vCBLZe.2929fm

ELECTRICAL

ITEM	SPECIFICATION
Operating frequency	DC-40GHz
VSWR	1.30:1 maximum
Insertion loss	3.42dB maximum
Phase stability	+/-4.5° maximum
Amplitude stability	+/-0.1 dB

MATERIAL

ITEM	SPECIFICATION
Connector body	Stainless steel/passivated
Connector center conductor	Gold plated beryllium copper
Outer jacket	Multilayer armour w/outer weave

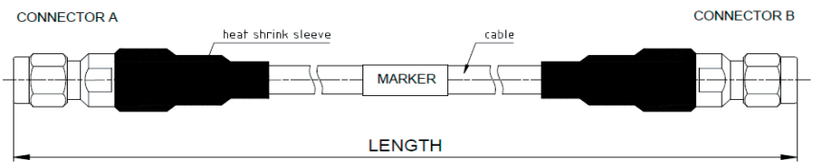
MECHANICAL

ITEM	SPECIFICATION
Outer diameter	6.4mm maximum
Bend radius	50mm maximum
Connector	2.92mm female to 2.92mm male
Mating cycles	2000 minimum
Mating torque	1.35-2Nm to 0.9Nm

MECHANICAL

ITEM	SPECIFICATION
Operating temperature	0°C to +40°C
Storage temperature	-55°C to +125°C

TYPICAL OUTLINE



vCABLZ™ - VNA FULLY ARMORED

VNA Test Port	Connector 1	Connector 2	Part Number	Frequency	VSWR	IL	Amplitude Stability	Phase Stability
Type N female	Type N male	Type N male	RMCA24.vCBLZNmm	18GHz	1.20:1 max	<1.5dB	<±0.05dB	<±2.0°
		Type N female	RMCA24.vCBLZNmf					
		NMD3.5mm male	RMCA24.vCBLZNd35mm					
		3.5mm female	RMCA24vCBLZN35mf					
NMD3.5mm male	NMD3.5mm female	NMD3.5mm male	RMCA24.vCBLZd35fm	26.5GHz	1.25:1 max	<1.8dB		<±2.5°
		3.5mm female	RMCA24.vCBLZd3535ff					
		Type N male	RMCA24.vCBLZd35Nfm	18GHz	1.20:1 max	<1.5dB		<±2.0°
		Type N female	RMCA24.vCBLZd35Nff					
NMD2.92mm male	NMD2.92mm female	NMD2.92mm male	RMCA24.vCBLZd29fm	40GHz	1.30:1 max	<2.8dB		<±3.0°
		2.92mm female	RMCA24.vCBLZd2929ff					
		NMD2.4mm male	RMCA24.vCBLZd29d24fm					
		2.4mm female	RMCA24.vCBLZd2924ff					
NMD2.4mm male	NMD2.4mm female	NMD2.4mm male	RMCA24.vCBLZd24fm	50GHz	1.35:1 max	<3.2dB		<±3.5°
		2.4mm female	RMCA24.vCBLZd2424ff					
		NMD2.92mm male	RMCA24.vCBLZd24d29fm	40GHz	1.30:1 max	<2.8dB		<±3.0°
		2.92mm female	RMCA24.vCBLZd2429ff					
NMD1.85mm male	NMD1.85mm female	NMD1.85mm male	RMCA24.vCBLZd18fm	67GHz	1.50:1 max	<5.8dB		<±6.5°
		1.85mm female	RMCA24.vCBLZd1818ff					

24inch standard length – optional lengths available upon request

Mechanical Parameters:

Center Conductor: Silver plated copper
Dielectric: PTFE
Inner Shield: Silver plated copper braid
Outer Shield: Silver plated copper tape
Outer Jacket: Multi-layer armor
Minimum Bend Radius: 50 mm (1.97")

Environmental Parameters:

Operating Temperature: 0 + 40°C
Storage Temperature: -40 + 75°C
Compression Resistance: > 920 kgf/cm

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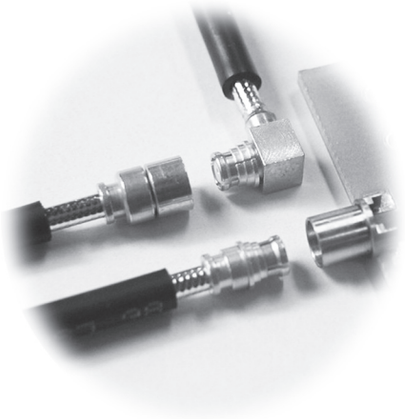
CONNECTIVITY SOLUTIONS



Based on our strategic relationship as North American channel partner for **Compel Electronics SpA** , Response Microwave offers a complete line of high quality, cost effective connectivity solutions for use in your commercial or military environment. All product is available in either brass or stainless steel base materials with gold, silver, passivate or ternary alloy plating finish. In most cases, interfaces meet the requirements of MIL-C-39012, CECC-22210 and IEC-169-16.

All product offered is manufactured in an ISO9000-2001 process and is RoHS compliant. We are also able to provide certification for chemical analysis, metalurgy, mechanical and electrical (including PIM) compliance test, structural analysis and non-destructive environmental test as required.

Following is a sampling of current standard product availability. Custom variants are considered upon request. Please forward your specific requirements and we will respond with a price and technical quotation accordingly. Contact us with your requirements on coaxial connectors, adaptors, and cable assemblies within the following product families and feel free to download the complete catalogs from our WEB site.

COAXIAL SELECTION GUIDE

SERIES	FREQUENCY (GHz)	IMPEDANCE (Ω)	COUPLING	HIGHEST POWER	HIGHEST FREQUENCY
SMA	DC-18	50	Thread-on		
SMAP	DC - 18	50	Push-on		
SSMA	DC-35	50	Thread-on		
SMB	DC-4	50	Push-on		
SMC	DC-6	50	Push-on		
SMP	DC-40	50	Push-on		
SMZ (BT43)	DC-3	75	Push-on		
MC CARD	DC-3	50	Push-on		
MCX	DC-6	50 & 75	Push-on		
MMCX	DC-6	50 & 75	Push-on		
1.0/2.3	DC-10	50 & 75	Push-on		
BMA	DC-6	50	Push-on		
1.6/5.6	DC-1	75	Push-on		
BNC	DC-4	50 & 75	Bayonet		
N	DC-12.4	50	Thread-on		
TNC	DC-18	50	Thread-on		
7/16	DC-8	50	Thread-on		
4.1/9.5	DC-10	50	Thread-on		
7/8	DC-3	50	Push-on	•	
U.FL	DC - 3	50	Push-on		
F	DC - 2	75	Thread-on		
3.5 mm	DC-33	50	Thread-on		
2.92 mm	DC-40	50	Thread-on		
2.4 mm	DC-50	50	Thread-on		
1.85 mm	DC-65	50	Thread-on		•
N/18	DC-18	50	Thread-on		
SMA 27	DC-26.5	50	Thread-on		

CONNECTIVITY SOLUTIONS

FIBER OPTIC SELECTION GUIDE

SERIES	FIBER	COUPLING	HIGH TENSILE STRENGTH	SMALLEST SIZE
FC	Glass SM/MM	Thread-on	•	
SC	Glass SM/MM	Push-pull		
SC2	Glass SM/MM	Push-pull		
MU	Glass SM/MM	Push-pull		•
MU-J	Glass SM/MM	Push-pull		
ST	Glass SM/MM	Bayonet		
LC	Glass SM/MM	Push-pull		
E2000	Glass SM/MM	Push-pull		
SMA-POF	Plastic	Thread-on		

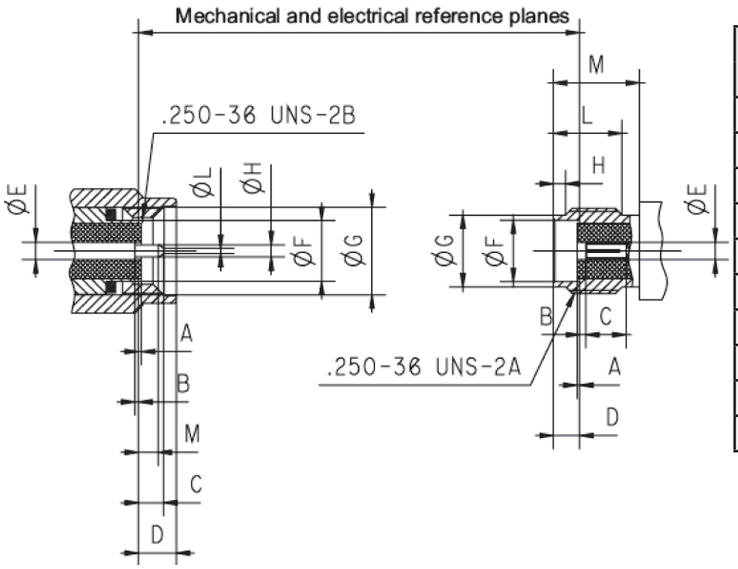
MULTI-PIN SELECTION GUIDE

SERIES	MAX CONTACTS	COUPLING	POWER CARRY	SIGNAL CARRY
D-SUB	37	Push-on	•	•
METRIC 2.0	475	Snap-on		•
METRIC 2.5	475	Snap-on		•
RECTANGULAR	24	Push-on	•	
DIN41612	96	Push-on	•	•

SMA SERIES (DC-18GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
A	-0.25	0
B	0	0.25
C	-	2.54
D	-	3.43
E	1.24	1.30
F	-	4.59
G	6.35	-
H	0.90	0.94
L	0	0.38
M	1.27	-



FEMALE

LTR	mm	
	MIN	MAX
A	- 0.25	0
B	0	0.25
C	2.92	-
D	1.88	1.98
E	1.24	1.30
F	4.60	-
G	5.28	5.49
H	0.38	1.14
L	4.32	-
M	5.54	-

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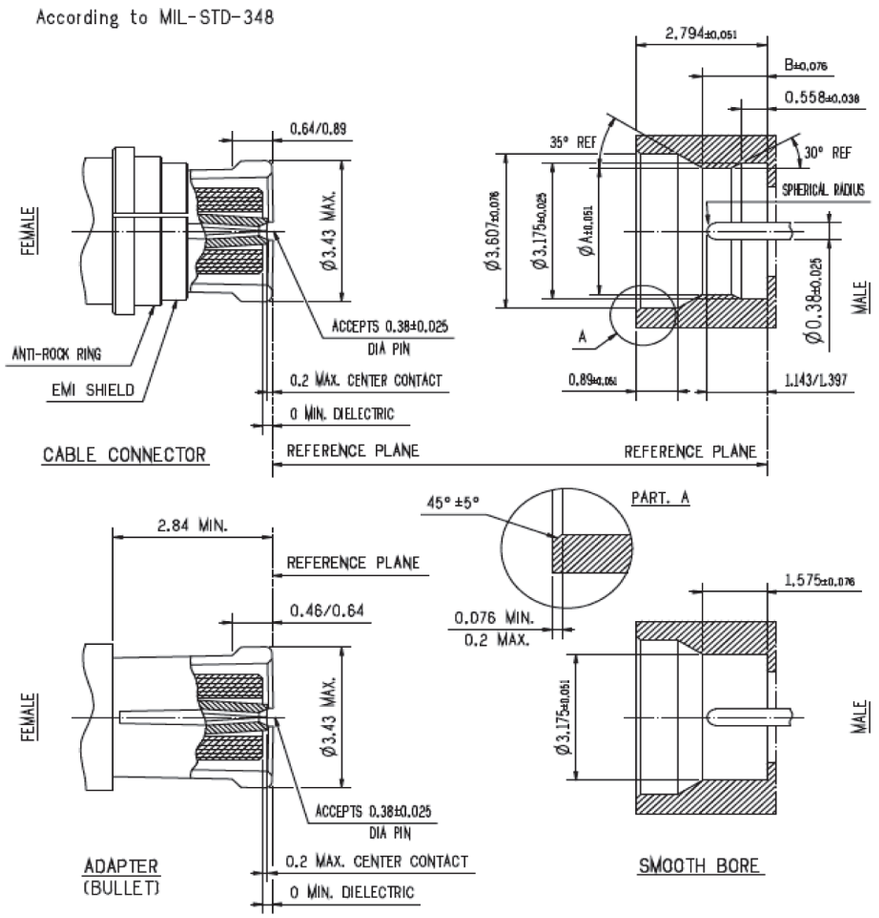
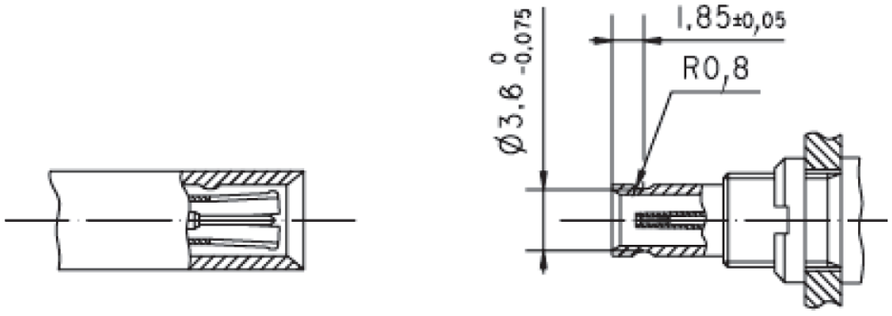
SMP SERIES (DC-40GHz) INTERFACE DIMENSIONS

LTR	(mm)	
	FULL DETENT	LIMITED DETENT
ØA	2.946	3.048
ØB	1.37	1.448



1.0/2.3 SERIES (DC-10GHz) INTERFACE DIMENSIONS

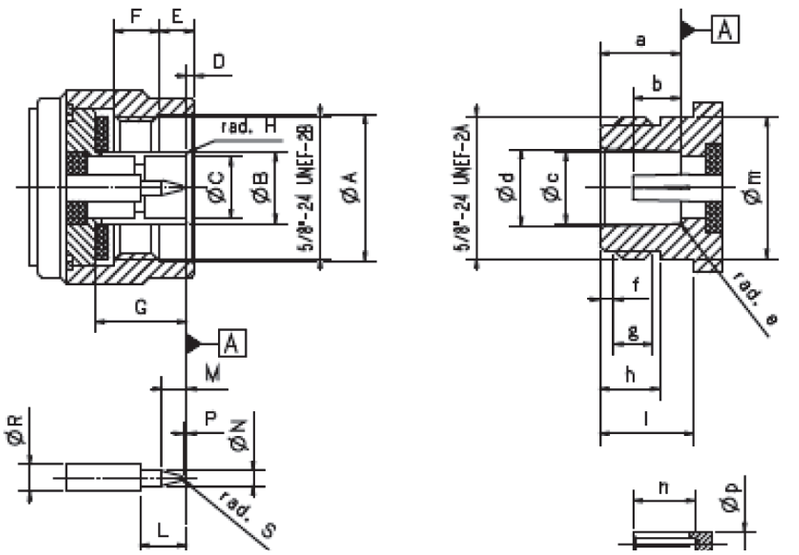


CONNECTIVITY SOLUTIONS

TYPE N SERIES (DC-12GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	16.00	-
ØB	-	8.027
ØC	7 nom.	
D	0.41	1.52
E	4.013	4.267
F	4.50	-
G	9.25	-
rad. H	0.15	-
L	5.33	-
M	2.79	3.56
ØN	1.600	1.676
O	0.0	1.57
ØR	3.04 nom.	
rad. S	-	0.64



ELECTRICAL AND MECHANICAL REF. PLANE

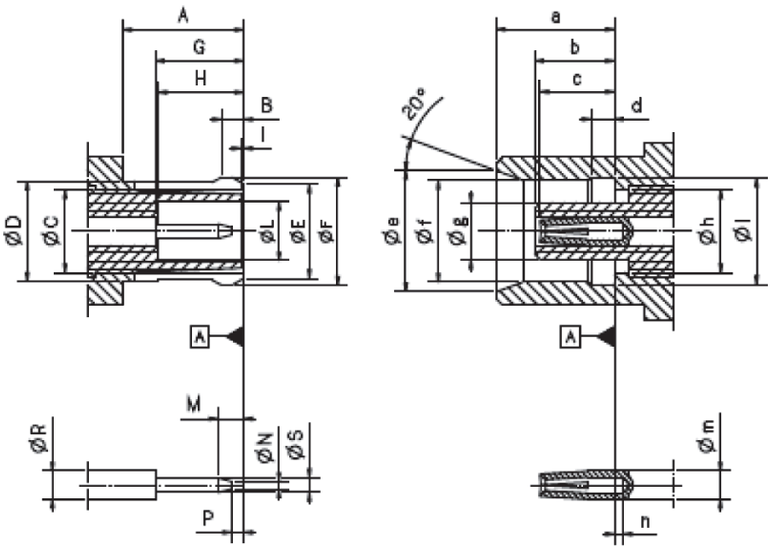
FEMALE

LTR	mm	
	MIN	MAX
a	9.05	9.19
b	4.75	5.26
Øc	8.027	8.13
Ød	8.53	8.74
rad. e	-	0.13
f	1.19	1.96
g	4.37	-
h	6.76	-
l	10.72	-
Øm	-	15.93
n	5.33	-
Øp	3.04 nom.	

MCX SERIES (DC-6GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
A	4.15	-
B	0.70	0.75
ØC	-	3.00
ØD	-	3.40
ØE	-	3.60
ØF	-	3.80
G	2.80	3.20
H	2.80	-
I	0.00	0.30
ØL	2.00	-
M	-	1.20
ØN	-	0.25
P	0.15	-
ØR	0.95 nom.	
ØS	0.48	0.53



A ELECTRICAL AND MECHANICAL REF. PLANE

FEMALE

LTR	mm	
	MIN	MAX
a	4.00	4.12
b	2.60	2.80
c	2.30	2.80
d	0.75	0.85
Øe	3.80	-
Øf	3.42	3.48
Øg	-	1.98
Øh	-	3.00
Øl	3.60	3.75
Øm	0.95 nom.	
n	0.00	-

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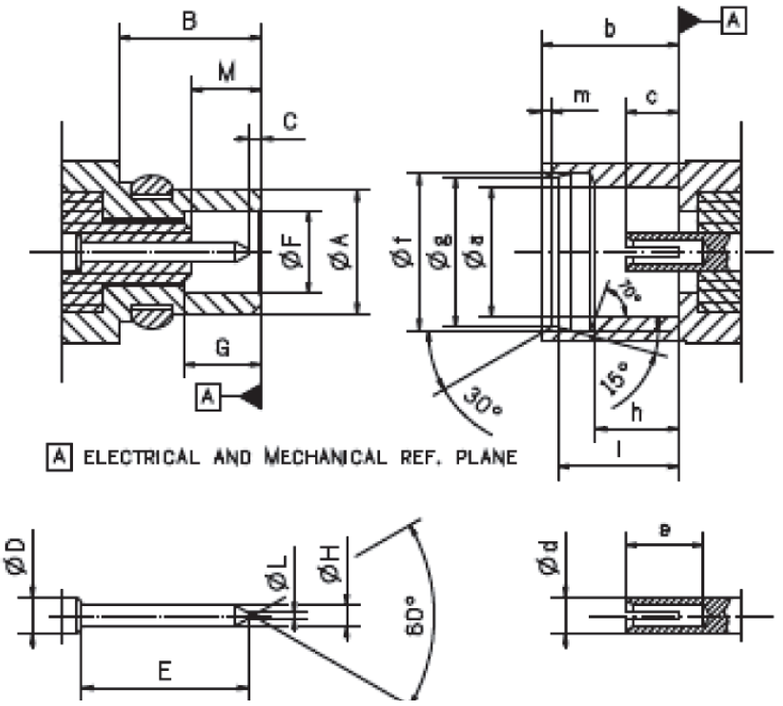
CONNECTIVITY SOLUTIONS

MMCX SERIES (DC-6GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	-	2.40
B	2.70	-
C	-	0.25
ØD	0.7 nom.	
E	-	3.15
ØF	1.58	1.62
G	1.45	-
ØH	0.38	0.42
ØL	-	0.20
M	1.23	-



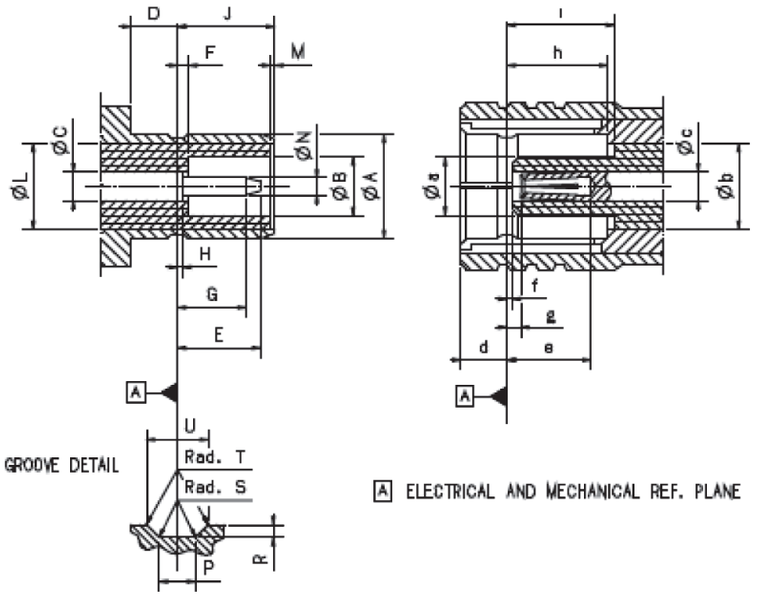
FEMALE

LTR	mm	
	MIN	MAX
Øa	2.41	-
b	2.60	2.67
c	0.90	1.20
Ød	0.70 nom.	
e	1.40	-
Øf	3.00	3.04
Øg	2.88	2.90
h	1.57	1.63
l	2.30	2.34
m	-	0.23

SMB SERIES (DC-4GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	3.66	3.71
ØB	2.08	-
ØC	0.95 nom.	
D	1.65	-
E	-	2.97
F	-	0.18
G	1.32	-
H	-	0.18
J	3.33	3.58
ØL	3.05 nom.	
M	0.0	-
ØN	0.48	0.53
P	0.28	0.38
R	0.15	0.25
S	-	0.13
T	0.05	0.15
U	0.69	0.94



FEMALE

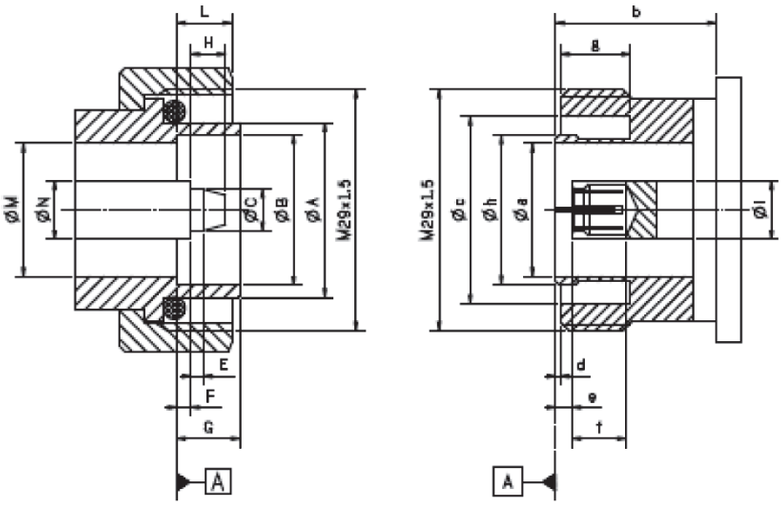
LTR	mm	
	MIN	MAX
Øa	-	2.06
Øb	3.05 nom.	
Øc	0.95 nom.	
d	-	1.63
e	2.97	-
f	0.18	-
g	0.18	0.94
h	3.58	-
l	3.58	-

CONNECTIVITY SOLUTIONS

7/16 SERIES (DC-6GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	20.6	21.4
ØB	18.03	18.21
ØC	4.96	5.04
D	15.85	16.25
E	1.4	1.6
F	1.47	1.77
G	7.00	8.00
H	-	4.5
L	7.00	9.00
ØM	15.85	16.25
ØN	7 nom.	



FEMALE

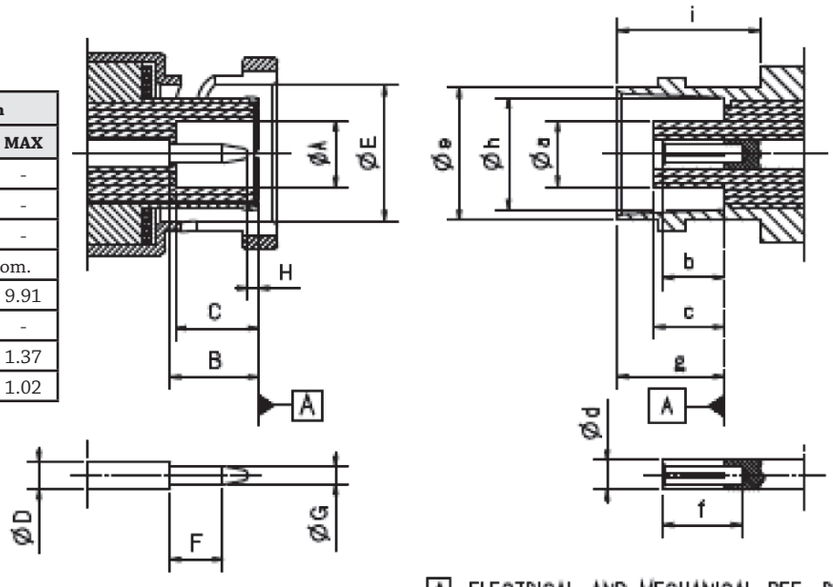
LTR	mm	
	MIN	MAX
Øa	15.85	16.25
b	10	-
Øc	22.1	22.9
d	0.5	0.74
e	1.77	2.07
f	5	-
g	8.1	-
Øh	17.84	18.02
Øl	7 nom.	

A MECHANICAL AND ELECTRICAL REFERENCE PLANE

BNC SERIES 50Ω (DC-4GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	4.83	-
B	5.33	-
C	5.28	-
ØD	2.14 nom.	
ØE	9.78	9.91
F	1.98	-
ØG	1.32	1.37
H	0.08	1.02



FEMALE

LTR	mm	
	MIN	MAX
Øa	-	4.72
b	4.72	5.23
c	-	5.28
Ød	2.14 nom.	
Øe	9.60	9.70
f	4.95	-
Øg	8.31	8.51
h	8.10	8.15
l	10.52	-

A ELECTRICAL AND MECHANICAL REF. PLANE

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CONNECTIVITY SOLUTIONS

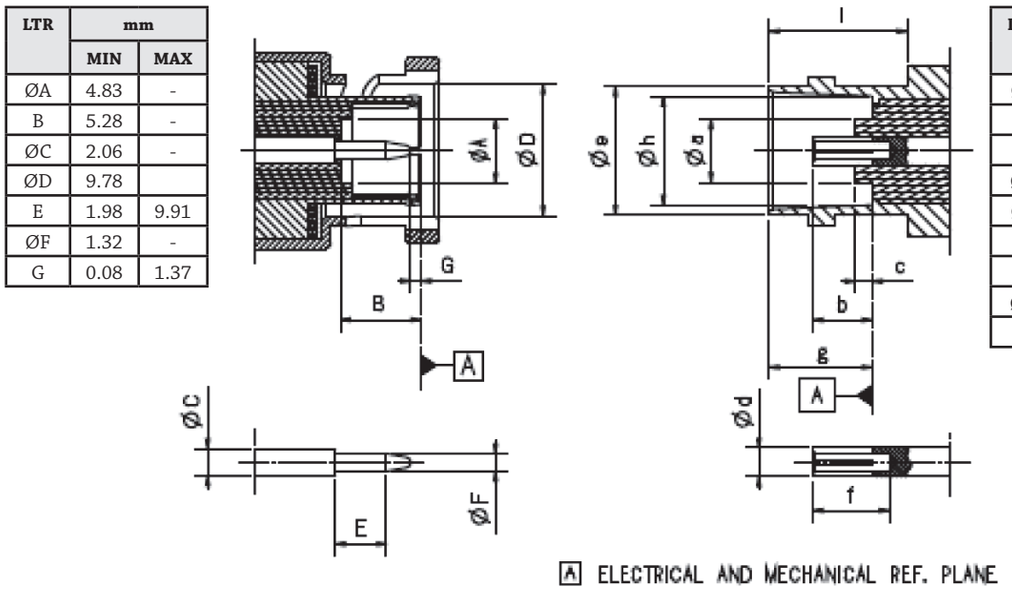
BNC SERIES 75Ω (DC-1GHz) INTERFACE DIMENSIONS

MALE

LTR	mm	
	MIN	MAX
ØA	4.83	-
B	5.28	-
ØC	2.06	-
ØD	9.78	
E	1.98	9.91
ØF	1.32	-
G	0.08	1.37

FEMALE

LTR	mm	
	MIN	MAX
Øa	-	4.72
b	4.72	5.23
c	-	2.31
Ød	1.88	2.29
Øe	9.60	9.70
f	4.95	-
g	8.31	8.51
Øh	8.10	8.15
l	10.52	-

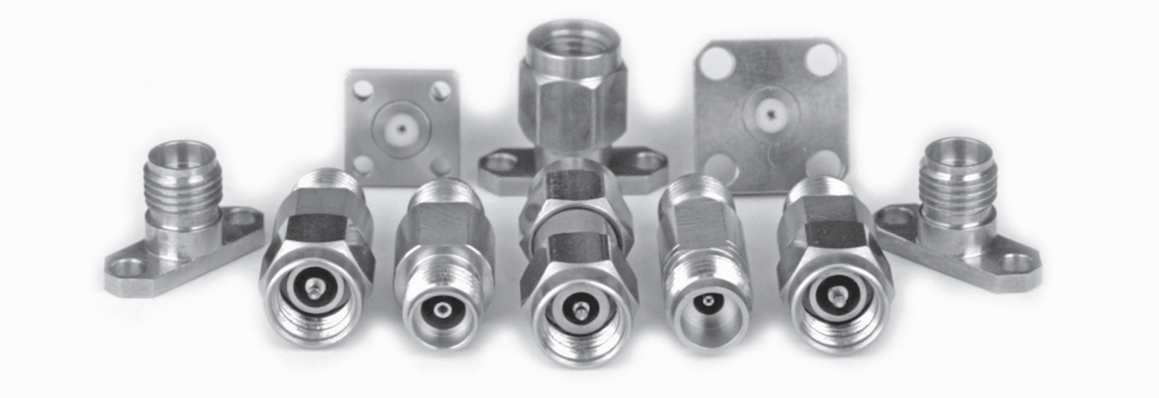


A ELECTRICAL AND MECHANICAL REF. PLANE

PRECISION CONNECTOR SERIES

PRECISION CONNECTIVITY SELECTION GUIDE

In addition to our general purpose connectivity solutions, the following pages will detail our complete offering of precision module mount connectors operating from DC to 65 GHz.

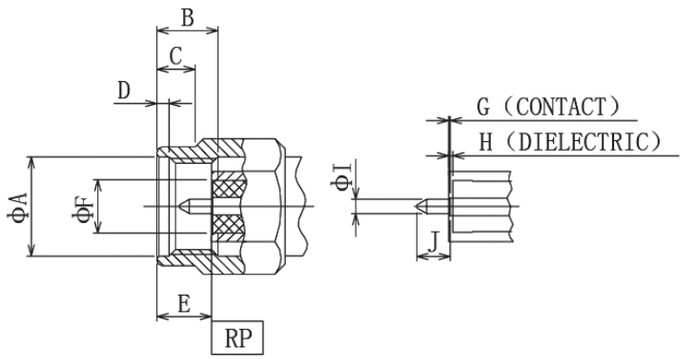


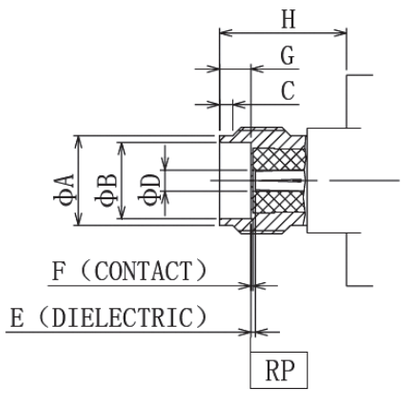
PRECISION SMA CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-27GHz
- VSWR: DC-18GHz… 1.10 : 1 (Max)
  18GHz-27GHz… 1.15 : 1 (Max)
- Maximum Power Handling: Standard Model High Power Model
  150W at 125°C 250W at 125°C
  160W at 165°C
- Durability: 500 cycles
- Operating Temperature: -50°C~ +125°C Standard Model
  -60°C~ +165°C High Power Model
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PTFE
- Interfaces: PER MIL-STD-348A

Interface Dimensions





SMA Male (mm)		
LTR	MINIMUM	MAXIMUM
A	6.5	6.6
B	4	4
C	2.5	2.5
D	0.8	0.8
E	2.97	3.28
F	3.48	3.52
G	0	0.198
H	0	0.178
I	0.920	0.934
J	2.09	2.15

SMA Female (mm)		
LTR	MINIMUM	MAXIMUM
A	5.324	5.400
B	4.60	4.63
C	0.9	0.9
D	1.25	1.28
E	0	0.178
F	0	0.198
G	1.855	1.993
H	5.3	-

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PRECISION SMA CONNECTOR SERIES

SMA REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.270.12.4H1	SMA Female 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.270.12.4H1H	SMA Female 4-Hole HP	12.7 sq	8.6	0.012 / 0.30
RMC.270.15.4H1	SMA Female 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.270.15.4H1H	SMA Female 4-Hole HP	12.7 sq	8.6	0.015 / 0.38
RMC.270.18.4H1	SMA Female 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.270.18.4H1H	SMA Female 4-Hole HP	12.7 sq	8.6	0.018 / 0.46
RMC.270.20.4H1	SMA Female 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.270.20.4H1H	SMA Female 4-Hole HP	12.7 sq	8.6	0.020 / 0.51
RMC.270.12.4H2	SMA Female 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.270.12.4H2H	SMA Female 4-Hole HP	9.5 sq	6.35	0.012 / 0.30
RMC.270.15.4H2	SMA Female 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.270.15.4H2H	SMA Female 4-Hole HP	9.5 sq	6.35	0.015 / 0.38
RMC.270.18.4H2	SMA Female 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.270.18.4H2H	SMA Female 4-Hole HP	9.5 sq	6.35	0.018 / 0.46
RMC.270.20.4H2	SMA Female 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.270.20.4H2H	SMA Female 4-Hole HP	9.5 sq	6.35	0.020 / 0.51
RMC.270.12.4H3	SMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.270.12.4H3H	SMA Female 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.270.15.4H3	SMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.270.15.4H3H	SMA Female 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.270.18.4H3	SMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.270.18.4H3H	SMA Female 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.270.20.4H3	SMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.270.20.4H3H	SMA Female 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.270.12.2H4	SMA Female 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.270.12.2H4H	SMA Female 2-Hole HP	15.8 x 5.7	12.2	0.012 / 0.30
RMC.270.15.2H4	SMA Female 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.270.15.2H4H	SMA Female 2-Hole HP	15.8 x 5.7	12.2	0.015 / 0.38
RMC.270.18.2H4	SMA Female 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.270.18.2H4H	SMA Female 2-Hole HP	15.8 x 5.7	12.2	0.018 / 0.46

PRECISION SMA CONNECTOR SERIES

SMA REMOVABLE FLANGE CONNECTORS (cont.)

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.270.20.2H4	SMA Female 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.270.20.2H4H	SMA Female 2-Hole HP	15.8 x 5.7	12.2	0.020 / 0.51
RMC.270.12.2H5	SMA Female 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.270.12.2H5H	SMA Female 2-Hole HP	14 x 4.8	10.2	0.012 / 0.30
RMC.270.15.2H5	SMA Female 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.270.15,2H5H	SMA Female 2-Hole HP	14 x 4.8	10.2	0.015 / 0.38
RMC.270.18.2H5	SMA Female 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.270.18.2H5H	SMA Female 2-Hole HP	14 x 4.8	10.2	0.018 / 0.46
RMC.270.20.2H5	SMA Female 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.270.20.2H5H	SMA Female 2-Hole HP	14 x 4.8	10.2	0.020 / 0.51
RMC.270.12.2H6	SMA Female 2-Hole	12.7 x 4.8	8.9	0.012 / 0.30
RMC.270.12.2H6H	SMA Female 2-Hole HP	12.7 x 4.8	8.9	0.012 / 0.30
RMC.270.15.2H6	SMA Female 2-Hole	12.7 x 4.8	8.9	0.015 / 0.38
RMC.270.15.2H6H	SMA Female 2-Hole HP	12.7 x 4.8	8.9	0.015 / 0.38
RMC.270.18.2H6	SMA Female 2-Hole	12.7 x 4.8	8.9	0.018 / 0.46
RMC.270.18.2H6H	SMA Female 2-Hole HP	12.7 x 4.8	8.9	0.018 / 0.46
RMC.270.20.2H6	SMA Female 2-Hole	12.7 x 4.8	8.9	0.020 / 0.51
RMC.270.20.2H6H	SMA Female 2-Hole HP	12.7 x 4.8	8.9	0.020 / 0.51
RMC.270.12.2H7	SMA Female 2-Hole	12.7 x 5.7	8.6	0.012 / 0.30
RMC.270.12.2H7H	SMA Female 2-Hole HP	12.7 x 5.7	8.6	0.012 / 0.30
RMC.270.15.2H7	SMA Female 2-Hole	12.7 x 5.7	8.6	0.015 / 0.38
RMC.270.15.2H7H	SMA Female 2-Hole HP	12.7 x 5.7	8.6	0.015 / 0.38
RMC.270.18.2H7	SMA Female 2-Hole	12.7 x 5.7	8.6	0.018 / 0.46
RMC.270.18.2H7H	SMA Female 2-Hole HP	12.7 x 5.7	8.6	0.018 / 0.46
RMC.270.20.2H7	SMA Female 2-Hole	12.7 x 5.7	8.6	0.020 / 0.51
RMC.270.20.2H7H	SMA Female 2-Hole HP	12.7 x 5.7	8.6	0.020 / 0.51
RMC.271.12.4H1	SMA Male 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.271.12.4H1H	SMA Male 4-Hole HP	12.7 sq	8.6	0.012 / 0.30
RMC.271.15.4H1	SMA Male 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.271.15.4H1H	SMA Male 4-Hole HP	12.7 sq	8.6	0.015 / 0.38
RMC.271.18.4H1	SMA Male 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.271.18.4H1H	SMA Male 4-Hole HP	12.7 sq	8.6	0.018 / 0.46
RMC.271.20.4H1	SMA Male 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.271.20.4H1H	SMA Male 4-Hole HP	12.7 sq	8.6	0.020 / 0.51
RMC.271.12.4H2	SMA Male 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.271.12.4H2H	SMA Male 4-Hole HP	9.5 sq	6.35	0.012 / 0.30
RMC.271.15.4H2	SMA Male 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.271.15.4H2H	SMA Male 4-Hole HP	9.5 sq	6.35	0.015 / 0.38
RMC.271.18.4H2	SMA Male 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.271.18.4H2H	SMA Male 4-Hole HP	9.5 sq	6.35	0.018 / 0.46
RMC.271.20.4H2	SMA Male 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.271.20.4H2H	SMA Male 4-Hole HP	9.5 sq	6.35	0.020 / 0.51
RMC.271.12.4H3	SMA Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.271.12.4H3H	SMA Male 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.271.15.4H3	SMA Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38

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PRECISION SMA CONNECTOR SERIES

SMA REMOVABLE FLANGE CONNECTORS (cont.)

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.271.15.4H3H	SMA Male 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.271.18.4H3	SMA Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.271.18.4H3H	SMA Male 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.271.20.4H3	SMA Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.271.20.4H3H	SMA Male 4-Hole HP	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.271.12.2H4	SMA Male 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.271.12.2H4H	SMA Male 2-Hole HP	15.8 x 5.7	12.2	0.012 / 0.30
RMC.271.15.2H4	SMA Male 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.271.15.2H4H	SMA Male 2-Hole HP	15.8 x 5.7	12.2	0.015 / 0.38
RMC.271.18.2H4	SMA Male 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.271.18.2H4H	SMA Male 2-Hole HP	15.8 x 5.7	12.2	0.018 / 0.46
RMC.271.20.2H4	SMA Male 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.271.20.2H4H	SMA Male 2-Hole HP	15.8 x 5.7	12.2	0.020 / 0.51
RMC.271.12.2H5	SMA Male 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.271.12.2H5H	SMA Male 2-Hole HP	14 x 4.8	10.2	0.012 / 0.30
RMC.271.15.2H5	SMA Male 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.271.15.2H5H	SMA Male 2-Hole HP	14 x 4.8	10.2	0.015 / 0.38
RMC.271.18.2H5	SMA Male 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.271.18.2H5H	SMA Male 2-Hole HP	14 x 4.8	10.2	0.018 / 0.46
RMC.271.20.2H5	SMA Male 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.271.20.2H5H	SMA Male 2-Hole HP	14 x 4.8	10.2	0.020 / 0.51
RMC.271.12.2H6	SMA Male 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.271.12.2H6H	SMA Male 2-Hole HP	12.7 x 5.7	8.9	0.012 / 0.30
RMC.271.15.2H6	SMA Male 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.271.15.2H6H	SMA Male 2-Hole HP	12.7 x 5.7	8.9	0.015 / 0.38
RMC.271.18.2H6	SMA Male 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.271.18.2H6H	SMA Male 2-Hole HP	12.7 x 5.7	8.9	0.018 / 0.46
RMC.271.20.2H6	SMA Male 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51
RMC.271.20.2H6H	SMA Male 2-Hole HP	12.7 x 5.7	8.9	0.020 / 0.51

SMA THREAD-IN CONNECTORS

MODEL NUMBER	DESCRIPTION	OVERALL LENGTH (mm)	OVERALL DIAMETER (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.270.12.TH1	SMA Female Thread-in	9.9	5.35	0.012 / 0.30
RMC.270.15.TH1	SMA Female Thread-in	9.9	5.35	0.015 / 0.38
RMC.270.18.TH1	SMA Female Thread-in	9.9	5.35	0.018 / 0.46
RMC.270.20.TH1	SMA Female Thread-in	9.9	5.35	0.020 / 0.51
RMC.270.12.TH2	SMA Female Thread-in	10.7	5.35	0.012 / 0.30
RMC.270.15.TH2	SMA Female Thread-in	10.7	5.35	0.015 / 0.38
RMC.270.18.TH2	SMA Female Thread-in	10.7	5.35	0.018 / 0.46
RMC.270.20.TH2	SMA Female Thread-in	10.7	5.35	0.020 / 0.51

PRECISION SMA CONNECTOR SERIES

SMA BULKHEAD THREAD-IN CONNECTORS

MODEL NUMBER	DESCRIPTION	OVERALL LENGTH (mm)	OVERALL DIAMETER (mm)	PIN DIAMETER (inch / mm)
RMC.270.**.L01	SMA Female BH Thread-in	9.9	5.35	SPECIFY

Note: ** = pin diameter and length

SMA BULKHEAD FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	PIN DIAMETER (inch / mm)	DIELECTRIC LENGTH (MM)
RMC.270.03.B4H1	SMA Female BH 4-Hole	12.7 sq	8.6	0.03 / 0.8	4
RMC.270.03.B4H2	SMA Female BH 4-Hole	9.5 sq	6.35	0.03 / 0.8	4
RMC.270.03.B4H3	SMA Female BH 4-Hole	12.7 x 9.5	8.64, 5.64	0.03 / 0.8	4
RMC.270.03.B2H4	SMA Female BH 2-Hole	15.8 x 5.7	12.2	0.03 / 0.8	4
RMC.270.03.B2H5	SMA Female BH 2-Hole	14 x 4.8	10.2	0.03 / 0.8	4
RMC.270.03.B2H6	SMA Female BH 2-Hole	12.7 x 5.7	8.9	0.03 / 0.8	4
RMC.270.03.B2H7	SMA Female BH 2-Hole	12.7 x 5.7	8.6	0.03 / 0.8	4
RMC.270.15.B4H1	SMA Female BH 4-Hole	12.7 sq	8.6	0.015 / 0.38	3
RMC.270.15.B4H2	SMA Female BH 4-Hole	9.5 sq	6.35	0.015 / 0.38	3
RMC.270.15.B4H3	SMA Female BH 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38	3
RMC.270.15.B2H4	SMA Female BH 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38	3
RMC.270.15.B2H5	SMA Female BH 2-Hole	14 x 4.8	10.2	0.015 / 0.38	3
RMC.270.15.B2H6	SMA Female BH 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38	3
RMC.270.15.B2H7	SMA Female BH 2-Hole	12.7 x 5.7	8.6	0.015 / 0.38	3
RMC.270.04.B4H14	SMA Female BH 4-Hole	12.7 sq	8.6	0.04 / 1.0	4
RMC.270.04.B4H24	SMA Female BH 4-Hole	9.5 sq	6.35	0.04 / 1.0	4
RMC.270.04.B4H34	SMA Female BH 4-Hole	12.7 x 9.5	8.64, 5.64	0.04 / 1.0	4
RMC.270.04.B2H44	SMA Female BH 2-Hole	15.8 x 5.7	12.2	0.04 / 1.0	4
RMC.270.04.B2H54	SMA Female BH 2-Hole	14 x 4.8	10.2	0.04 / 1.0	4
RMC.270.04.B2H64	SMA Female BH 2-Hole	12.7 x 5.7	8.9	0.04 / 1.0	4
RMC.270.04.B2H74	SMA Female BH 2-Hole	12.7 x 5.7	8.6	0.04 / 1.0	4
RMC.270.04.B4H13	SMA Female BH 4-Hole	12.7 sq	8.6	0.04 / 1.0	3
RMC.270.04.B4H23	SMA Female BH 4-Hole	9.5 sq	6.35	0.04 / 1.0	3
RMC.270.04.B4H33	SMA Female BH 4-Hole	12.7 x 9.5	8.64, 5.64	0.04 / 1.0	3
RMC.270.04.B4H43	SMA Female BH 2-Hole	15.8 x 5.7	12.2	0.04 / 1.0	3
RMC.270.04.B4H53	SMA Female BH 2-Hole	14 x 4.8	10.2	0.04 / 1.0	3
RMC.270.04.B4H63	SMA Female BH 2-Hole	12.7 x 5.7	8.9	0.04 / 1.0	3
RMC.270.04.B4H73	SMA Female BH 2-Hole	12.7 x 5.7	8.6	0.04 / 1.0	3

SMA EDGE LAUNCH CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	PCB THICKNESS (inch)	PIN DIAMETER (inch / mm)
RMC.270.12.EL1	SMA Female - center ground	6.5 sq	0.062	0.012 / 0.3
RMC.270.12.EL2	SMA Female - bottom ground	6.5 sq	0.062	0.012 / 0.3
RMC.270.12.EL3	SMA Female	7.5 dia	0.062	0.012 / 0.3
RMC.271.12.EL3	SMA Male	7.5 dia	0.062	0.012 / 0.3

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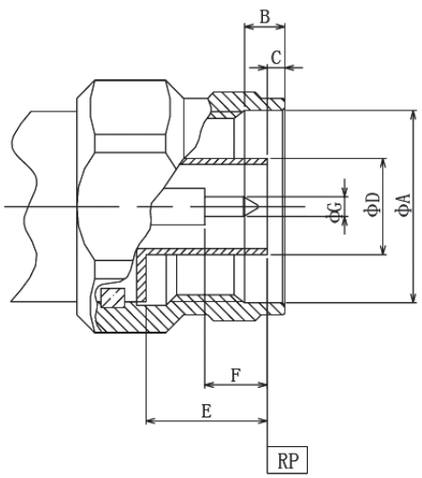
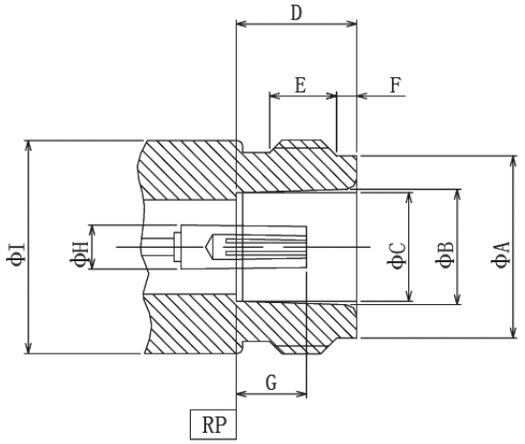
PRECISION TYPE N CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-18GHz
- VSWR: DC-18GHz… 1.15 : 1 (Max)
- Durability; 500 cycles
- Operating Temperature: -60°C˜ +165°C
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI & PTFE
- Interfaces: PER MIL-STD-348A

Interface Dimensions





N MALE (mm)		
LTR	MINIMUM	MAXIMUM
A	15	17
B	3.3	3.5
C	1.3	1.55
D	8	8.035
E	10.1	10.3
F	5.36	5.46
G	1.62	1.65

N Female (mm)		
LTR	MINIMUM	MAXIMUM
A	13.4	13.6
B	8.5	8.7
C	8.05	8.086
D	8.88	9.16
E	4.9	5.1
F	1.4	1.6
G	5.16	5.26
H	3.025	3.055
I	15.75	15.88

PRECISION TYPE N CONNECTOR SERIES

TYPE N REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.N80.18.4H1	N Female 4-Hole	25.4 sq	18.3	0.018 / 0.46
RMC.N80.20.4H1	N Female 4-Hole	25.4 sq	18.3	0.020 / 0.51
RMC.N80.36.4H1	N Female 4-Hole	25.4 sq	18.3	0.036 / 0.91
RMC.N80.18.4H2	N Female 4-Hole	17.5 sq	12.7	0.018 / 0.46
RMC.N80.20.4H2	N Female 4-Hole	17.5 sq	12.7	0.020 / 0.51
RMC.N80.36,4H2	N Female 4-Hole	17.5 sq	12.7	0.036 / 0.91
RMC.N80.18.4H3	N Female 4-Hole	12.7 sq	8.64	0.018 / 0.46
RMC.N80.20.4H3	N Female 4-Hole	12.7 sq	8.64	0.020 / 0.51
RMC.N80.36.4H3	N Female 4-Hole	12.7 sq	8.64	0.036 / 0.91
RMC.N81.18.4H1	N Male 4-Hole	25.4 sq	18.3	0.018 / 0.46
RMC.N81.20.4H1	N Male 4-Hole	25.4 sq	18.3	0.020 / 0.51
RMC.N81.36.4H1	N Male 4-Hole	25.4 sq	18.3	0.036 / 0.91

TYPE N BULKHEAD FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	PIN DIAMETER (inch / mm)
RMC.N80.05.B4H1	N Female BH 4-Hole	25.4 sq	18.28	0.05 / 1.27
RMC.N80.05.B4H2	N Female BH 4-Hole	17.52 sq	12.7	0.05 / 1.27
RMC.N80.05.B4H3	N Female BH 4-Hole	12.7 sq	8.64	0.05 / 1.27
RMC.N80.05.B4H4	N Female BH 4-Hole	28 x 18	21, 10	0.05 / 1.27

TYPE N THREAD IN CONNECTORS

MODEL NUMBER	DESCRIPTION	THREAD DIAMETER (mm)	PIN DIAMETER (inch / mm)
RMC.N80.020.THD	N Female Thread In	14.4	0.02 / 0.51
RMC.N80.036.THD	N Female Thread In	14.4	0.036/ 0.91
RMC.N80.050.THD	N Female Thread In	11.4	0.05 / 1.27

Note: Additional pin diameters avaliable on request

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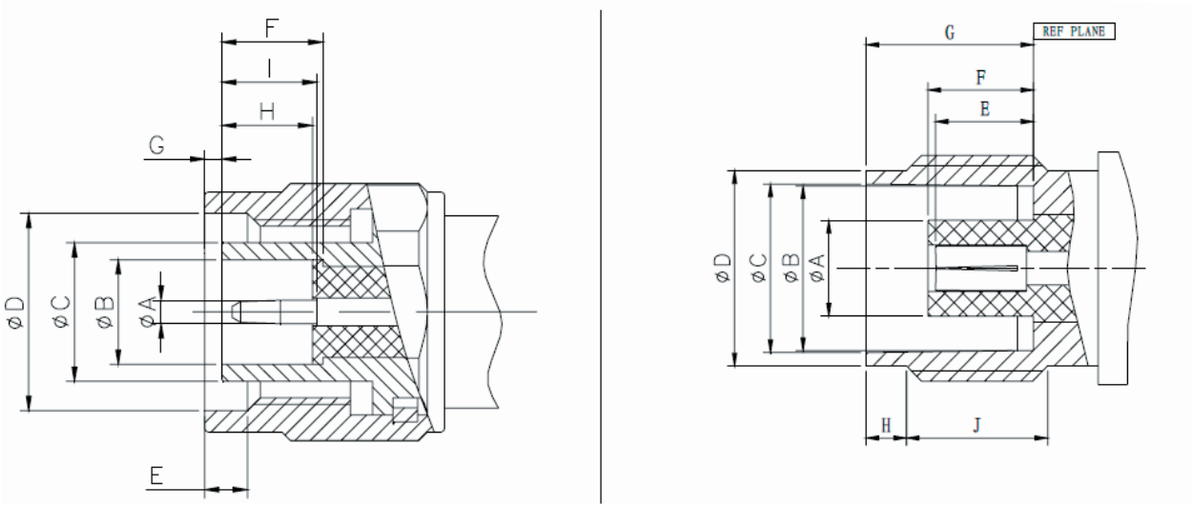
PRECISION TNCA CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-18GHz
- VSWR: DC-18GHz… 1.15 : 1 (Max)
- Durability; 500 cycles
- Operating Temperature: -60ºC˜ +165ºC
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI & PTFE
- Interfaces: PER MIL-STD-348A

Interface Dimensions



TNCA MALE (mm)		
LTR	MINIMUM	MAXIMUM
A	1.32	1.37
B	6.05	6.15
C	7.98	8.08
D	11.18	-
E	1.60	-
F	5.38	-
G	-	1.98
H	5.28	-
I	5.28	-

TNCA Female (mm)		
LTR	MINIMUM	MAXIMUM
A	4.62	4.72
B	8.10	8.15
C	8.31	8.46
D	9.60	9.68
E	5.03	5.28
F	5.03	5.28
G	8.31	8.51
H	1.73	2.24
J	4.75	-

PRECISION TNCA CONNECTOR SERIES

TNCA REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.TN0.18.4H1	TNCA Female 4-Hole	25.4 sq	18.3	0.018 / 0.46
RMC.TN0.20.4H1	TNCA Female 4-Hole	25.4 sq	18.3	0.020 / 0.51
RMC.TN0.36.4H1	TNCA Female 4-Hole	25.4 sq	18.3	0.036 / 0.91
RMC.TN0.18.4H2	TNCA Female 4-Hole	17.5 sq	12.7	0.018 / 0.46
RMC.TN0.20.4H2	TNCA Female 4-Hole	17.5 sq	12.7	0.020 / 0.51
RMC.TN0.36,4H2	TNCA Female 4-Hole	17.5 sq	12.7	0.036 / 0.91
RMC.TN0.18.4H3	TNCA Female 4-Hole	12.7 sq	8.64	0.018 / 0.46
RMC.TN0.20.4H3	TNCA Female 4-Hole	12.7 sq	8.64	0.020 / 0.51
RMC.TN0.36.4H3	TNCA Female 4-Hole	12.7 sq	8.64	0.036 / 0.91
RMC.TN1.18.4H1	TNCA Male 4-Hole	25.4 sq	18.3	0.018 / 0.46
RMC.TN1.20.4H1	TNCA Male 4-Hole	25.4 sq	18.3	0.020 / 0.51
RMC.TN1.36.4H1	TNCA Male 4-Hole	25.4 sq	18.3	0.036 / 0.91

TNCA BULKHEAD FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	PIN DIAMETER (inch / mm)
RMC.TN0.05.B4H1	TNCA Female BH 4-Hole	25.4 sq	18.28	0.05 / 1.27
RMC.TN0.05.B4H2	TNCA Female BH 4-Hole	17.52 sq	12.7	0.05 / 1.27
RMC.TN0.05.B4H3	TNCA Female BH 4-Hole	12.7 sq	8.64	0.05 / 1.27
RMC.TN0.05.B4H4	TNCA Female BH 4-Hole	28 x 18	21, 10	0.05 / 1.27

TNCA THREAD IN CONNECTORS

MODEL NUMBER	DESCRIPTION	THREAD DIAMETER (mm)	PIN DIAMETER (inch / mm)
RMC.TN0.020.THD	TNCA Female Thread In	14.4	0.02 / 0.51
RMC.TN0.050.THD	TNCA Female Thread In	11.4	0.05 / 1.27

Note: Additional pin diameters avaliable on request

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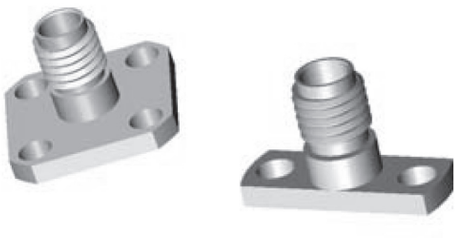
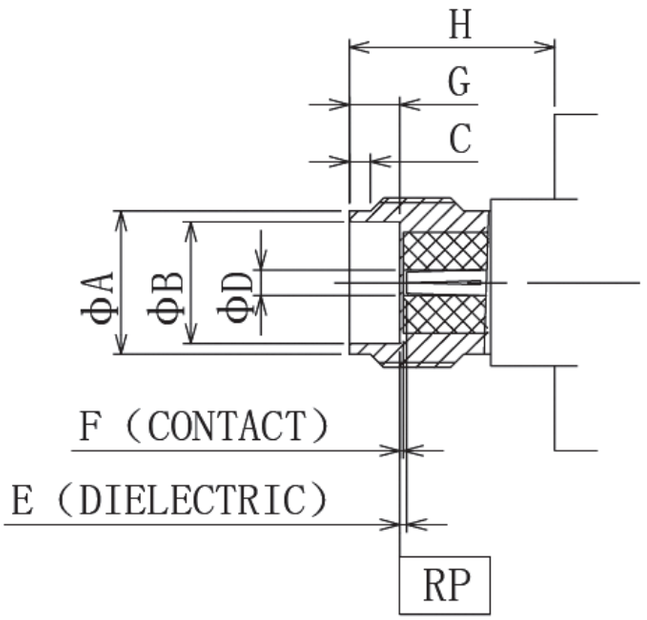
PRECISION SSMA CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-40GHz
- VSWR: DC-40GHz… 1.20 : 1 (Max)
- Durability; 500 cycles
- Operating Temperature: -60°C~ +165°C
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI & PTFE
- Interfaces: PER MIL-STD-348A



Interface Dimensions



SSMA Female (mm)		
LTR	MINIMUM	MAXIMUM
A	3.85	4.05
B	3.23	3.28
C	0.9	1.1
D	0.8373	0.8627
E	0	0.03
F	0	0.04
G	1.79	1.81
H	7.8	8.0

PRECISION SSMA CONNECTOR SERIES

SSMA REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.SS0.12.4H1	SSMA Female 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.SS0.15.4H1	SSMA Female 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.SS0.18.4H1	SSMA Female 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.SS0.20.4H1	SSMA Female 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.SS0.12.4H2	SSMA Female 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.SS0.15.4H2	SSMA Female 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.SS0.18.4H2	SSMA Female 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.SS0.20.4H2	SSMA Female 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.SS0.12.4H3	SSMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.SS0.15.4H3	SSMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.SS0.18.4H3	SSMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.SS0.20.4H3	SSMA Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.SS0.12.2H4	SSMA Female 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.SS0.15.2H4	SSMA Female 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.SS0.18.2H4	SSMA Female 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.SS0.20.2H4	SSMA Female 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.SS0.12.2H5	SSMA Female 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.SS0.15.2H5	SSMA Female 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.SS0.18.2H5	SSMA Female 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.SS0.20.2H5	SSMA Female 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.SS0.12.2H6	SSMA Female 2-Hole	12.7 x 4.8	8.9	0.012 / 0.30
RMC.SS0.15.2H6	SSMA Female 2-Hole	12.7 x 4.8	8.9	0.015 / 0.38
RMC.SS0.18.2H6	SSMA Female 2-Hole	12.7 x 4.8	8.9	0.018 / 0.46
RMC.SS0.20.2H6	SSMA Female 2-Hole	12.7 x 4.8	8.9	0.020 / 0.51
RMC.SS0.12.2H7	SSMA Female 2-Hole	12.7 x 4.8	8.6	0.012 / 0.30
RMC.SS0.15.2H7	SSMA Female 2-Hole	12.7 x 4.8	8.6	0.015 / 0.38
RMC.SS0.18.2H7	SSMA Female 2-Hole	12.7 x 4.8	8.6	0.018 / 0.46
RMC.SS0.20.2H7	SSMA Female 2-Hole	12.7 x 4.8	8.6	0.020 / 0.51

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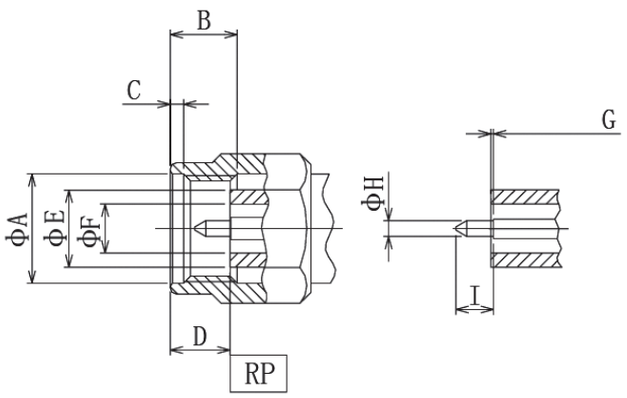
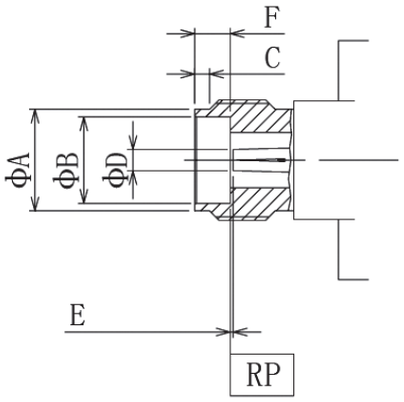
2.92mm CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-40GHz
- VSWR: DC-40GHz… 1.15 : 1 (Max)
- Durability: 500 cycles
- Operating Temperature: -60ºC˜ +165ºC
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI
- Interfaces: PER MIL-STD-348A

Interface Dimensions





2.92mm MALE (mm)		
LTR	MINIMUM	MAXIMUM
A	6.5	6.6
B	4.0	4.0
C	0.8	0.8
D	2.82	3.18
E	4.55	4.58
F	2.90	2.94
G	0	0.06
H	0.920	0.934
I	1.295	1.450

2.92mm Female (mm)		
LTR	MINIMUM	MAXIMUM
A	5.324	5.400
B	4.60	4.63
C	0.8	0.9
D	1.26	1.28
E	0	0.078
F	1.855	1.993
G	5.3	-

2.92mm CONNECTOR SERIES

2.92mm REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.290.12.4H1	2.92mm Female 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.290.15.4H1	2.92mm Female 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.290.18.4H1	2.92mm Female 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.290.20.4H1	2.92mm Female 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.290.12.4H2	2.92mm Female 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.290.15.4H2	2.92mm Female 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.290.18.4H2	2.92mm Female 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.290.20.4H2	2.92mm Female 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.290.12.4H3	2.92mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.290.15.4H3	2.92mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.290.18.4H3	2.92mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.290.20.4H3	2.92mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.290.12.2H4	2.92mm Female 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.290.15.2H4	2.92mm Female 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.290.18.2H4	2.92mm Female 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.290.20.2H4	2.92mm Female 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.290.12.2H5	2.92mm Female 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.290.15.2H5	2.92mm Female 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.290.18.2H5	2.92mm Female 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.290.20.2H5	2.92mm Female 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.290.12.2H6	2.92mm Female 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.290.15.2H6	2.92mm Female 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.290.18.2H6	2.92mm Female 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.290.20.2H6	2.92mm Female 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51
RMC.290.12.2H7	2.92mm Female 2-Hole	12.7 x 5.7	8.6	0.012 / 0.30
RMC.290.15.2H7	2.92mm Female 2-Hole	12.7 x 5.7	8.6	0.015 / 0.38
RMC.290.18.2H7	2.92mm Female 2-Hole	12.7 x 5.7	8.6	0.018 / 0.46
RMC.290.20.2H7	2.92mm Female 2-Hole	12.7 x 5.7	8.6	0.020 / 0.51
RMC.291.12.4H1	2.92mm Male 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.291.15.4H1	2.92mm Male 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.291.18.4H1	2.92mm Male 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.291.20.4H1	2.92mm Male 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.291.12.4H2	2.92mm Male 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.291.15.4H2	2.92mm Male 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.291.18.4H2	2.92mm Male 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.291.20.4H2	2.92mm Male 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.291.12.4H3	2.92mm Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.291.15.4H3	2.92mm Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.291.18.4H3	2.92mm Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.291.20.4H3	2.92mm Male 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51

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2.92mm CONNECTOR SERIES

2.92mm REMOVABLE FLANGE CONNECTORS (cont.)

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.291.12.2H4	2.92mm Male 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.291.15.2H4	2.92mm Male 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.291.18.2H4	2.92mm Male 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.291.20.2H4	2.92mm Male 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.291.12.2H5	2.92mm Male 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.291.15.2H5	2.92mm Male 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.291.18.2H5	2.92mm Male 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.291.20.2H5	2.92mm Male 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.291.12.2H6	2.92mm Male 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.291.15.2H6	2.92mm Male 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.291.18.2H6	2.92mm Male 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.291.20.2H6	2.92mm Male 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51

2.92mm THREAD-IN CONNECTORS

MODEL NUMBER	DESCRIPTION	OVERALL LENGTH (mm)	OVERALL DIAMETER (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.290.12.TH1	2.92mm Female Thread-in	9.9	5.35	0.012 / 0.30
RMC.290.15.TH1	2.92mm Female Thread-in	9.9	5.35	0.015 / 0.38
RMC.290.18.TH1	2.92mm Female Thread-in	9.9	5.35	0.018 / 0.46
RMC.290.20.TH1	2.92mm Female Thread-in	9.9	5.35	0.020 / 0.51
RMC.290.12.TH2	2.92mm Female Thread-in	10.7	5.35	0.012 / 0.30
RMC.290.15.TH2	2.92mm Female Thread-in	10.7	5.35	0.015 / 0.38
RMC.290.18.TH2	2.92mm Female Thread-in	10.7	5.35	0.018 / 0.46
RMC.290.20.TH2	2.92mm Female Thread-in	10.7	5.35	0.020 / 0.51

2.92mm BULKHEAD FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	PIN DIAMETER & LENGTH (inch / mm)
RMC.291.**.B4H1	2.92mm Male BH 4-Hole	12.7 sq	8.6	SPECIFY
RMC.291.**.B4H2	2.92mm Male BH 4-Hole	9.5 sq	6.35	SPECIFY
RMC.291.**.B4H3	2.92mm Male BH 4-Hole	12.7 x 9.5	8.64, 5.64	SPECIFY
RMC.291.**.B2H4	2.92mm Male BH 2-Hole	15.8 x 5.7	12.2	SPECIFY
RMC.291.**.B2H5	2.92mm Male BH 2-Hole	14 x 4.8	10.2	SPECIFY
RMC.291.**.B2H6	2.92mm Male BH 2-Hole	12.7 x 5.7	8.9	SPECIFY
RMC.290.**.B4H1	2.92mm Female BH 4-Hole	12.7 sq	8.6	SPECIFY
RMC.290.**.B4H2	2.92mm Female BH 4-Hole	9.5 sq	6.35	SPECIFY
RMC.290.**.B4H3	2.92mm Female BH 4-Hole	12.7 x 9.5	8.64, 5.64	SPECIFY
RMC.290.**.B2H4	2.92mm Female BH 2-Hole	15.8 x 5.7	12.2	SPECIFY
RMC.290.**.B2H5	2.92mm Female BH 2-Hole	14 x 4.8	10.2	SPECIFY
RMC.290.**.B2H6	2.92mm Female BH 2-Hole	12.7 x 5.7	8.9	SPECIFY

Note: ** = pin diameter and length

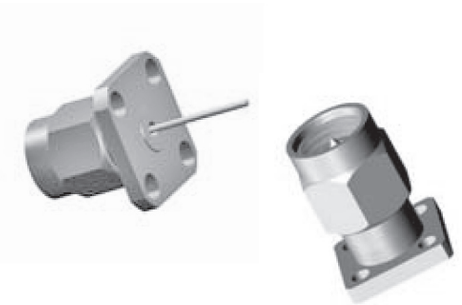
2.92mm EDGE LAUNCH CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	PCB THICKNESS (inch)	PIN DIAMETER (inch / mm)
RMC.290.12.EL3	SMA Female	7.5 dia	0.062	0.012 / 0.3
RMC.291.12.EL3	SMA Male	7.5 dia	0.062	0.012 / 0.3

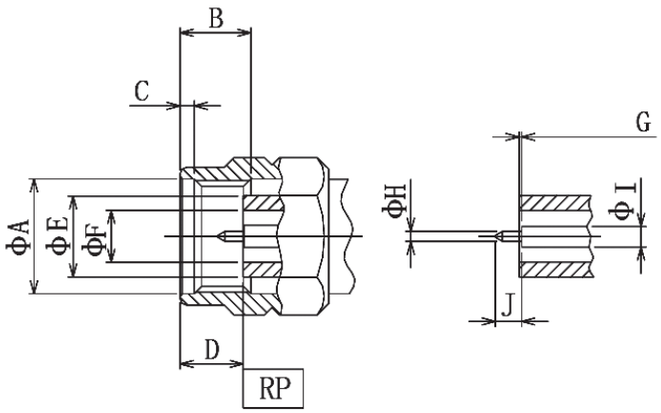
2.4mm CONNECTOR SERIES

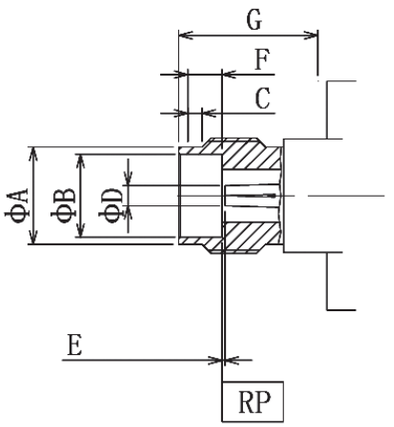
FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-50GHz
- VSWR: DC-50GHz… 1.15 : 1 (Max)
- Durability; 500 cycles
- Operating Temperature: -60°C˜ +165°C
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI
- Interfaces: PER MIL-STD-348A



Interface Dimensions





2.4mm MALE (mm)		
LTR	MINIMUM	MAXIMUM
A	7.05	7.15
B	4.0	4.0
C	0.8	0.8
D	1.7	1.9
E	4.725	4.750
F	2.385	2.415
G	0	0.055
H	0.49	0.51
I	1.032	1.052
J	1.305	1.45

2.4mm Female (mm)		
LTR	MINIMUM	MAXIMUM
A	5.7	5.9
B	4.770	4.795
C	1.4	1.6
D	1.12	1.14
E	0	0.055
F	3.00	3.08
G	6.4	-

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2.4mm CONNECTOR SERIES

2.4mm REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.240.12.4H1	2.4mm Female 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.240.15.4H1	2.4mm Female 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.240.18.4H1	2.4mm Female 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.240.20.4H1	2.4mm Female 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.240.12.4H2	2.4mm Female 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.240.15.4H2	2.4mm Female 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.240.18.4H2	2.4mm Female 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.240.20.4H2	2.4mm Female 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.240.12.4H3	2.4mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.240.15.4H3	2.4mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.240.18.4H3	2.4mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.240.20.4H3	2.4mm Female 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.240.12.2H4	2.4mm Female 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.240.15.2H4	2.4mm Female 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.240.18.2H4	2.4mm Female 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.240.20.2H4	2.4mm Female 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.240.12.2H5	2.4mm Female 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.240.15.2H5	2.4mm Female 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.240.18.2H5	2.4mm Female 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.240.20.2H5	2.4mm Female 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.240.12.2H6	2.4mm Female 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.240.15.2H6	2.4mm Female 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.240.18.2H6	2.4mm Female 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.240.20.2H6	2.4mm Female 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51
RMC.240.12.2H7	2.4mm Female 2-Hole	12.7 x 5.7	8.6	0.012 / 0.30
RMC.240.15.2H7	2.4mm Female 2-Hole	12.7 x 5.7	8.6	0.015 / 0.38
RMC.240.18.2H7	2.4mm Female 2-Hole	12.7 x 5.7	8.6	0.018 / 0.46
RMC.240.20.2H7	2.4mm Female 2-Hole	12.7 x 5.7	8.6	0.020 / 0.51
RMC.241.12.4H1	2.4mm Male 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.241.15.4H1	2.4mm Male 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.241.18.4H1	2.4mm Male 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.241.20.4H1	2.4mm Male 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.241.12.4H2	2.4mm Male 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.241.15.4H2	2.4mm Male 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.241.18.4H2	2.4mm Male 4-Hole	9.5 sq	6.35	0.018 / 0.46

2.4mm CONNECTOR SERIES

2.4mm REMOVABLE FLANGE CONNECTORS (cont.)

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.241.20.4H2	2.4mm male 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.241.12.4H3	2.4mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.241.15.4H3	2.4mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.241.18.4H3	2.4mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.241.20.4H3	2.4mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.241.12.2H4	2.4mm male 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.241.15.2H4	2.4mm male 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.241.18.2H4	2.4mm male 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.241.20.2H4	2.4mm male 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.241.12.2H5	2.4mm male 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.241.15.2H5	2.4mm male 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.241.18.2H5	2.4mm male 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.241.20.2H5	2.4mm male 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.241.12.2H6	2.4mm male 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.241.15.2H6	2.4mm male 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.241.18.2H6	2.4mm male 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.241.20.2H6	2.4mm male 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51

2.4mm THREAD-IN CONNECTORS

MODEL NUMBER	DESCRIPTION	OVERALL LENGTH (mm)	OVERALL DIAMETER (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.240.12.TH1	2.4mm female Thread-in	11.7	6.35	0.012 / 0.30
RMC.240.15.TH1	2.4mm female Thread-in	11.7	6.35	0.015 / 0.38
RMC.240.18.TH1	2.4mm female Thread-in	11.7	6.35	0.018 / 0.46
RMC.240.20.TH1	2.4mm female Thread-in	11.7	6.35	0.020 / 0.51

2.4mm BULKHEAD FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	PIN DIAMETER & LENGTH (inch / mm)
RMC.241.**.4H1	2.4mm male BH 4-Hole	12.7 sq	8.6	SPECIFY
RMC.241.**.4H2	2.4mm male BH 4-Hole	9.5 sq	6.35	SPECIFY
RMC.241.**.4H3	2.4mm male BH 4-Hole	12.7 x 9.5	8.64, 5.64	SPECIFY
RMC.241.**.2H4	2.4mm male BH 2-Hole	15.8 x 5.7	12.2	SPECIFY
RMC.241.**.2H5	2.4mm male BH 2-Hole	14 x 4.8	10.2	SPECIFY
RMC.241.**.2H6	2.4mm male BH 2-Hole	12.7 x 5.7	8.9	SPECIFY
RMC.240.**.4H1	2.4mm female BH 4-Hole	12.7 sq	8.6	SPECIFY
RMC.240.**.4H2	2.4mm female BH 4-Hole	9.5 sq	6.35	SPECIFY
RMC.240.**.4H3	2.4mm female BH 4-Hole	12.7 x 9.5	8.64, 5.64	SPECIFY
RMC.240.**.2H4	2.4mm female BH 2-Hole	15.8 x 5.7	12.2	SPECIFY
RMC.240.**.2H5	2.4mm female BH 2-Hole	14 x 4.8	10.2	SPECIFY
RMC.240.**.2H6	2.4mm female BH 2-Hole	12.7 x 5.7	8.9	SPECIFY

Note: ** = pin diameter and length

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1.85mm CONNECTOR SERIES

FEATURES

- Nominal Impedance: 50 Ω
- Frequency range: DC-65GHz
- VSWR: DC-65GHz… 1.30 : 1 (Max)
- Durability; 500 cycles
- Operating Temperature: -60ºC +165ºC
- Housing: Type 303 Stainless Steel - Polished & Passivated
- Center Contact: Beryllium Copper Plated Gold
- Insulators: PEI
- Interfaces: PER MIL-STD-348A

1.85mm REMOVABLE FLANGE CONNECTORS

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.180.12.4H1	1.85mm female 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.180.15.4H1	1.85mm female 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.180.18.4H1	1.85mm female 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.180.20.4H1	1.85mm female 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.180.12.4H2	1.85mm female 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.180.15.4H2	1.85mm female 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.180.18.4H2	1.85mm female 4-Hole	9.5 sq	6.35	0.018 / 0.46
RMC.180.20.4H2	1.85mm female 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.180.12.4H3	1.85mm female 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.180.15.4H3	1.85mm female 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.180.18.4H3	1.85mm female 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.180.20.4H3	1.85mm female 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.180.12.2H4	1.85mm female 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.180.15.2H4	1.85mm female 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.180.18.2H4	1.85mm female 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.180.20.2H4	1.85mm female 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.180.12.2H5	1.85mm female 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.180.15.2H5	1.85mm female 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.180.18.2H5	1.85mm female 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.180.20.2H5	1.85mm female 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.180.12.2H6	1.85mm female 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.180.15.2H6	1.85mm female 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.180.18.2H6	1.85mm female 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.180.20.2H6	1.85mm female 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51
RMC.180.12.2H7	1.85mm female 2-Hole	12.7 x 5.7	8.6	0.012 / 0.30
RMC.180.15.2H7	1.85mm female 2-Hole	12.7 x 5.7	8.6	0.015 / 0.38
RMC.180.18.2H7	1.85mm female 2-Hole	12.7 x 5.7	8.6	0.018 / 0.46
RMC.180.20.2H7	1.85mm female 2-Hole	12.7 x 5.7	8.6	0.020 / 0.51
RMC.181.12.4H1	1.85mm male 4-Hole	12.7 sq	8.6	0.012 / 0.30
RMC.181.15.4H1	1.85mm male 4-Hole	12.7 sq	8.6	0.015 / 0.38
RMC.181.18.4H1	1.85mm male 4-Hole	12.7 sq	8.6	0.018 / 0.46
RMC.181.20.4H1	1.85mm male 4-Hole	12.7 sq	8.6	0.020 / 0.51
RMC.181.12.4H2	1.85mm male 4-Hole	9.5 sq	6.35	0.012 / 0.30
RMC.181.15.4H2	1.85mm male 4-Hole	9.5 sq	6.35	0.015 / 0.38
RMC.181.18.4H2	1.85mm male 4-Hole	9.5 sq	6.35	0.018 / 0.46

1.85mm REMOVABLE FLANGE CONNECTORS (cont.)

MODEL NUMBER	DESCRIPTION	FLANGE DIMENSION (mm)	CL HOLE SPACING (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.181.20.4H2	1.85mm male 4-Hole	9.5 sq	6.35	0.020 / 0.51
RMC.181.12.4H3	1.85mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.012 / 0.30
RMC.181.15.4H3	1.85mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.015 / 0.38
RMC.181.18.4H3	1.85mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.018 / 0.46
RMC.181.20.4H3	1.85mm male 4-Hole	12.7 x 9.5	8.64, 5.64	0.020 / 0.51
RMC.181.12.2H4	1.85mm male 2-Hole	15.8 x 5.7	12.2	0.012 / 0.30
RMC.181.15.2H4	1.85mm male 2-Hole	15.8 x 5.7	12.2	0.015 / 0.38
RMC.181.18.2H4	1.85mm male 2-Hole	15.8 x 5.7	12.2	0.018 / 0.46
RMC.181.20.2H4	1.85mm male 2-Hole	15.8 x 5.7	12.2	0.020 / 0.51
RMC.181.0122H5	1.85mm male 2-Hole	14 x 4.8	10.2	0.012 / 0.30
RMC.181.15.2H5	1.85mm male 2-Hole	14 x 4.8	10.2	0.015 / 0.38
RMC.181.18.2H5	1.85mm male 2-Hole	14 x 4.8	10.2	0.018 / 0.46
RMC.181.20.2H5	1.85mm male 2-Hole	14 x 4.8	10.2	0.020 / 0.51
RMC.181.12.2H6	1.85mm male 2-Hole	12.7 x 5.7	8.9	0.012 / 0.30
RMC.181.15.2H6	1.85mm male 2-Hole	12.7 x 5.7	8.9	0.015 / 0.38
RMC.181.18.2H6	1.85mm male 2-Hole	12.7 x 5.7	8.9	0.018 / 0.46
RMC.181.20.2H6	1.85mm male 2-Hole	12.7 x 5.7	8.9	0.020 / 0.51

1.85mm THREAD-IN CONNECTORS

MODEL NUMBER	DESCRIPTION	OVERALL LENGTH (mm)	OVERALL DIAMETER (mm)	RECEPTACLE DIAMETER (inch / mm)
RMC.180.18.TH2	1.85mm female Thread-in	11.3	4.83	0.018 / 0.46
RMC.180.12.TH1	1.85mm female Thread-in	11.3	4.83	0.012 / 0.30
RMC.180.15.TH1	1.85mm female Thread-in	11.3	4.83	0.015 / 0.38
RMC.180.18.TH1	1.85mm female Thread-in	11.3	4.83	0.018 / 0.46
RMC.180.20.TH1	1.85mm female Thread-in	11.3	4.83	0.020 / 0.51

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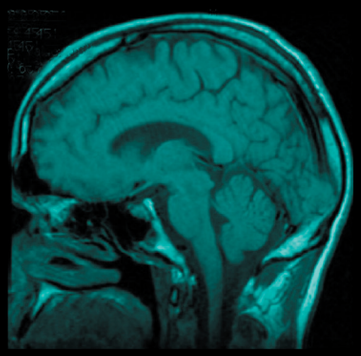
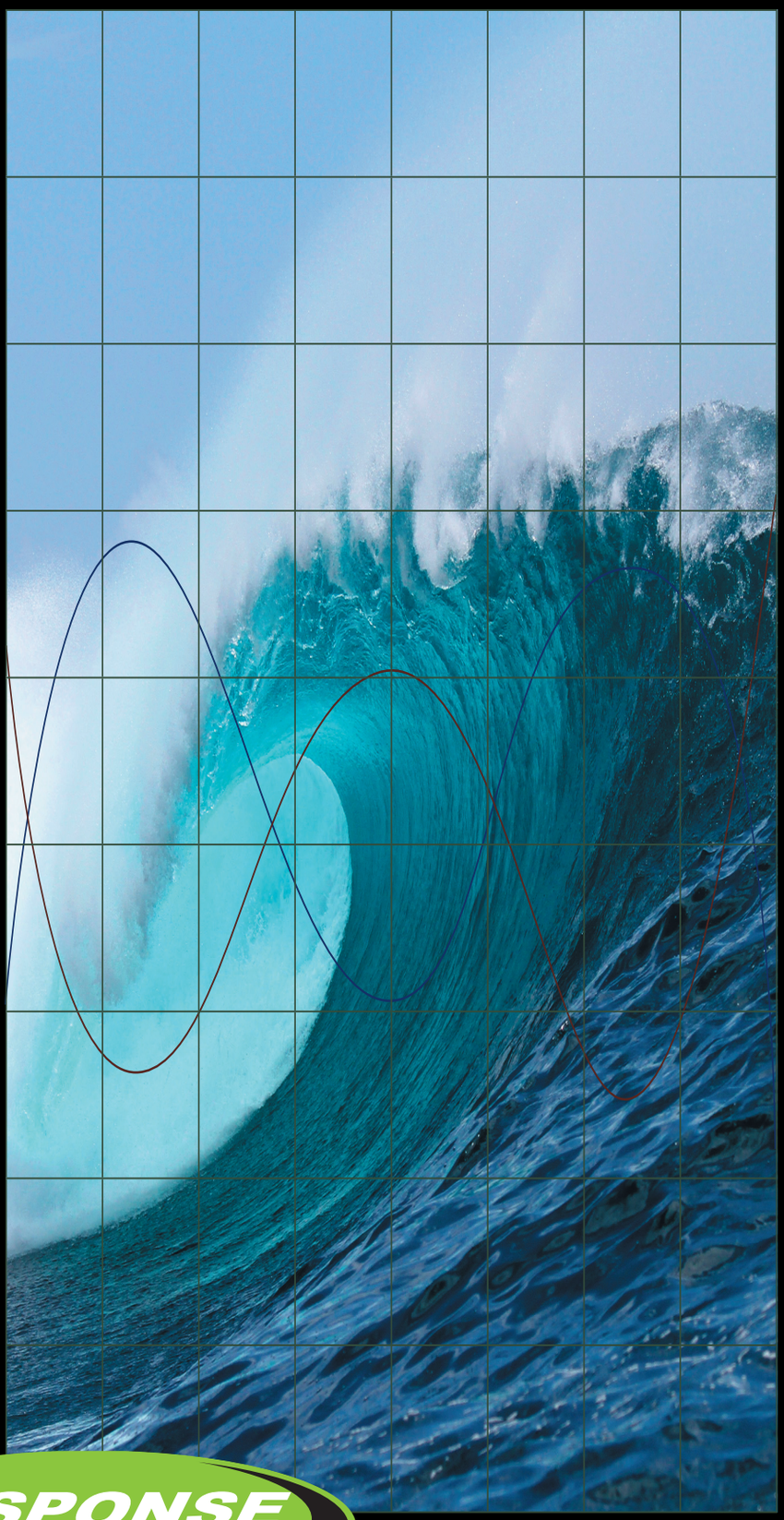
NOTES

TELECOMMUNICATIONS



MEDICAL

MILITARY



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