

# 2x2 MiMo 4G/5G Dome Antenna Kit

## LG-IN2457



**Low Profile 2x2 4G/5G MiMo**  
**2x2 MiMo Dual Band WiFi**  
**GPS/GNSS Active Antenna 26dB LNA**

The LG-IN2457 range has been designed to provide 2x2 4G/5G MiMo performance from 617-960/1710-6000MHz in a robust low profile package. The flexible platform allows the main elements to be combined with a number of other functions including GPS/GNSS and 2x2 MiMo WiFi 2.4/5.0GHz.

The antenna is designed to be panel mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant RG174 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments and applications.

The antenna is available with a black or white radome which meets IK10 for vandal resistance and IP69K for ingress protection.



**Certified IK10**  
Impact Resistant



**Certified IP69K**  
Ingress Protected



**Flame Retardant**  
Halogen Free  
Radome -UL94-V0

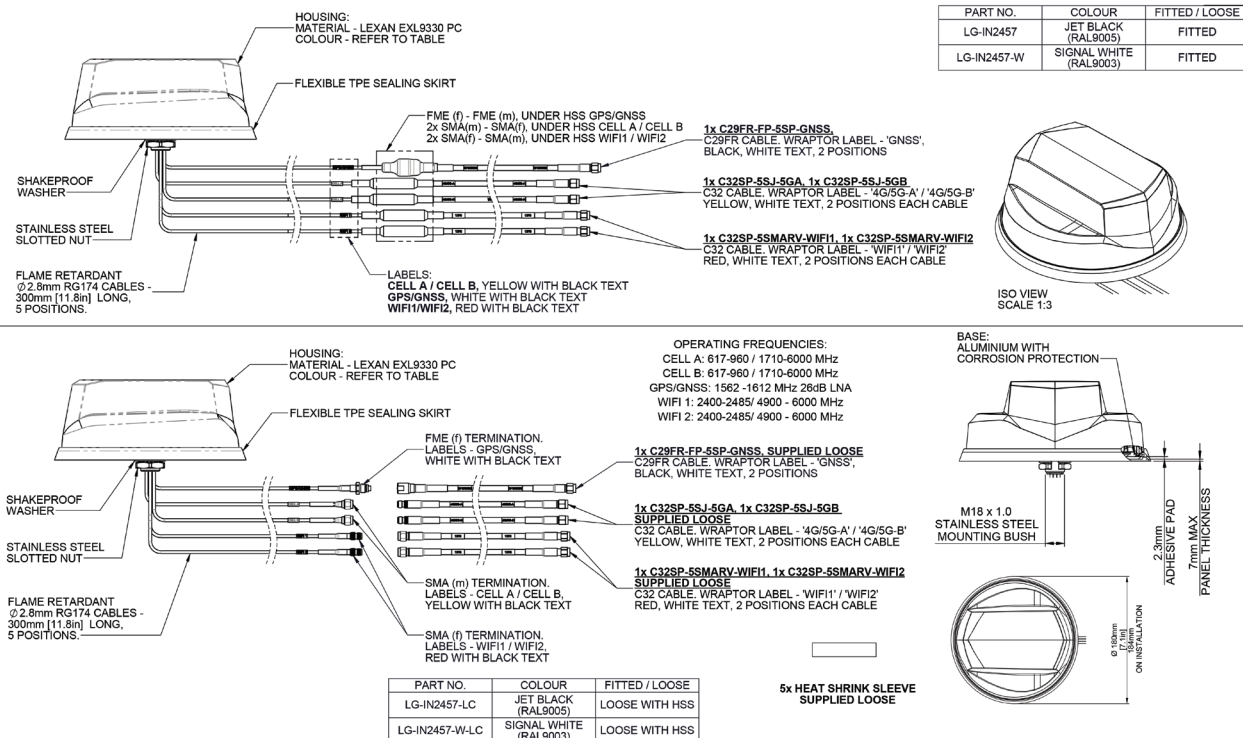


**UV, Ozone, High & Low Temperature**  
Protected



**Environmentally Compliant - Meets**  
RoHS, REACH - PVC Free

### Technical Drawing



# 2x2 MiMo 4G/5G Dome Antenna Kit LG-IN2457

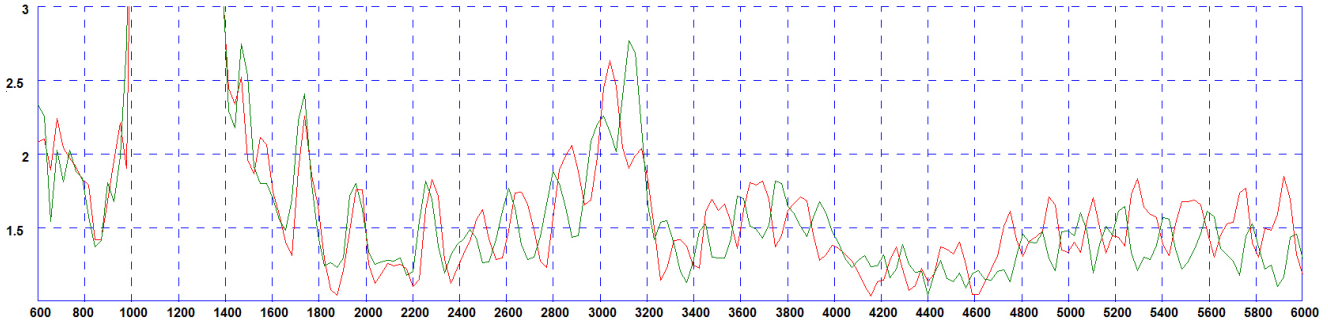
Part No.		LG-IN2457-W	LG-IN2457-W-LC	LG-IN2457	LG-IN2457-LC
<b>Electrical Data</b>					
Frequency Range (MHz)	4G/5G Elements	2x 617-960 / 1710-6000			
	WiFi Elements	2x 2.4/4.9-6GHz			
Peak Gain: Isotropic : All Elements Fed	4G/5G Elements	617-960MHz	5		
		1710-3800MHz	9		
		4900-6000MHz	10		
	WiFi Elements	2.4GHz	8		
		4.9-6.0GHz	10		
Typical Efficiency	4G/5G Elements	>70%			
	WiFi Elements	>80%			
Isolation	4G/5G Elements	>12dB			
	Wifi Elements	>20dB			
Correlation Co-efficient	4G/5G Elements	< 0.1			
	WiFi Elements	<0.1			
Nominal Impedance	50Ω				
<b>GPS/GNSS Data</b>					
Frequency Range (MHz)	1562-1612				
VSWR	<2.0:1 ± 4MHz				
Gain: LNA	26dB				
Out of band rejection	>40dB (@ > +/- 100MHz f)				
Typical Noise Figure	-2.7dB				
Notch Filter rejection @787MHz	24dB				
Operating Voltage	3 - 5V DC				
Typical Current (mA)	15				
<b>Mechanical Data</b>					
Dimensions (mm)	Height	75 (3")			
	Diameter	180 (7.1")			
Operating Temp	-40°/ +80°C (-40° / +176°F)				
Colour	White	Black	White	Black	
Ingress Protection	IP69K				
<b>Mounting Data</b>					
Mounting type	Panel mount				
Max panel thickness (mm)	7 (0.27")				
Mounting hole (mm)	19 (3/4")				
<b>Extension Cable Data</b>					
		GPS Cables		All Other Cables	
All Cables	Type	FR CS29 (UN118.03 / EN45545-2 HL2 Compliant)		CS32 (UN118.03 / EN45545-2 Compliant)	
		Fitted	Loose	Fitted	Loose
	Diameter (mm)	5 (0.2")			
Length (m)	5 (16')				
<b>Terminations</b>					
4G/5G	2x SMA (m)				
WiFi	2x Reverse Polarity SMA				
GPS/GNSS	1x SMA(m)				

# 2x2 MiMo 4G/5G Dome Antenna Kit

## LG-IN2457

### Electrical Data

Typical VSWR - 4G/5G Elements\*



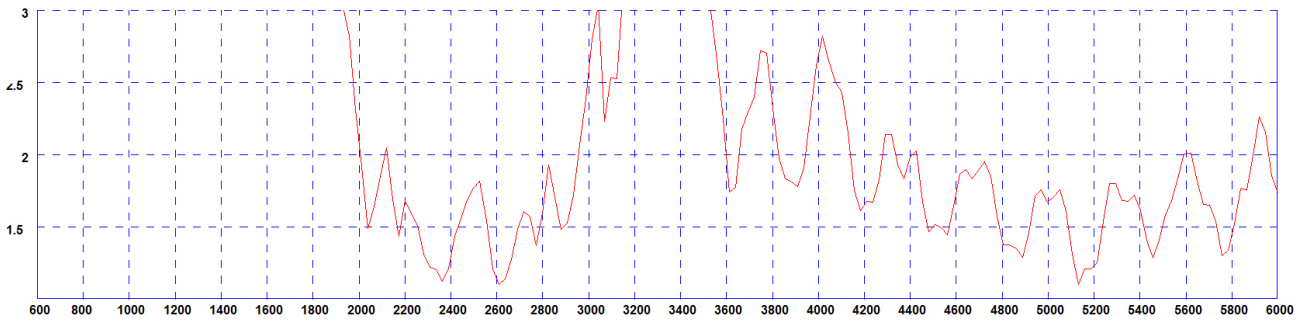
\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical Isolation - 4G/5G Elements\*



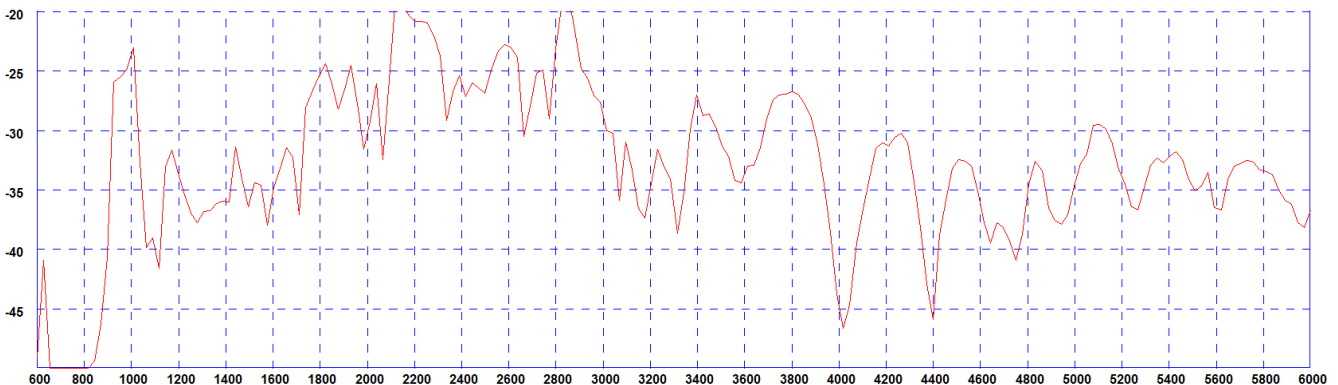
\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical VSWR - WiFi Elements\*



\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical Isolation - WiFi Elements\*



\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane