



P33

UHF RFID ANTENNA

The Vulcan RFID™ p33 UHF RFID Antenna is a compact RFID UHF antenna with circular polarization. This antenna has a radiation pattern characterized by a pencil beam shape, 40°/40° beamwidth.

Inside retail clothing stores, the Vulcan RFID™ P33 UHF RFID Antenna can be installed at the ceiling over each fitting room. In this position, thanks to the antenna's **high directivity**, the RFID system can detect the RFID tags located in the corresponding fitting room, while minimizing the detection of items located in neighboring fitting rooms or other areas nearby.

This antenna is **IP 68 rated**, meaning it is dust resistant even in high concentrations, making it perfect for indoor and outdoor use. Additionally, this antenna can withstand water immersion up to 1 m (3 ft) up to 30 minutes.

The Vulcan RFID™ p33 UHF RFID Antenna's radiation pattern makes it ideal for many RFID applications such as:

- Overhead Real-Time Inventory Management
- Fitting Rooms
- Magic Mirrors
- Doors
- Corridors





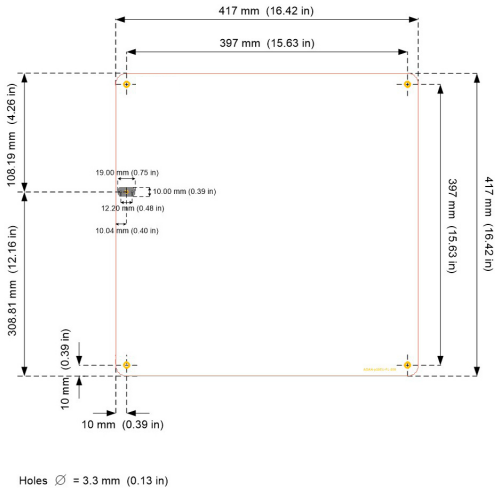
Specifications

ELECTRICAL	Operating Frequency:	FCC (902-928 MHz), ETSI (865-868 MHz)
	Polarization:	Right Hand Circular Polarization
	Gain:	9.6 dBi (US), 10.4 dBi (EU)
	Max Read Distance:	Up to 6 m (19.7 ft)
	Elevation Beamwidth:	40°
	Azimuth Beamwidth:	40°
	Input Impedance:	50 Ω
	VSWR:	< 1.4:1
	Front-to-Back Ratio:	< -20 dB
	Axial Ratio:	US: At boresight 0.4 dB, at 3 dB beamwidth 0.7 dB (typical), 1.9 dB (max)
		EU: At boresight 0.3 dB, at 3 dB beamwidth 0.5 dB (typical), 1.9 dB (max)
	Radiation Pattern:	Pencil Beam
Antenna Technology:	Patch	
Sidelobe:	< -15 dB	
MECHANICAL	Connector Type:	SMA Female (connects to SMA Male)
	Mounting:	Integrated Mounting Holes
	Cable:	Not Included
	Dimensions - Excludes Connector:	417 x 417 x 3.3 mm (16.4 x 16.4 x 0.13 in)
	Dimensions - Flange Connector:	417 x 417 x 15 mm (16.4 x 16.4 x 0.6 in)
	Weight:	0.47 kg (1.04 lbs)
ENVIRONMENT	Operating Temperature:	-20 °C to +80 °C (-4 °F to +176 °F)
	IP Rating:	IP 68



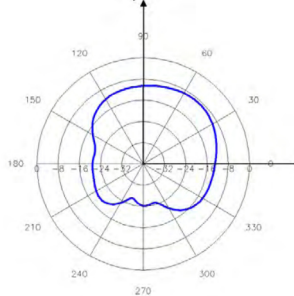
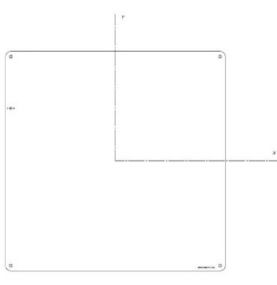
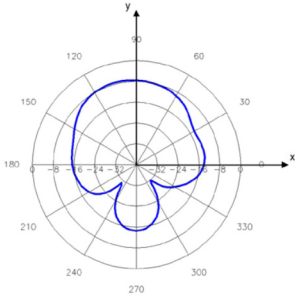
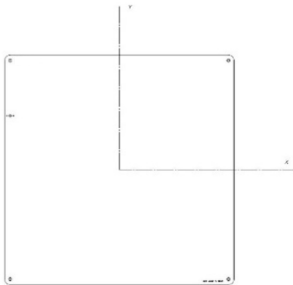
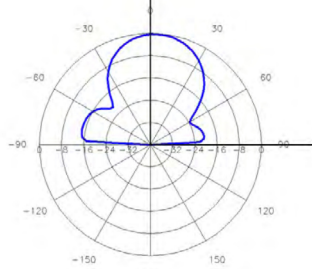
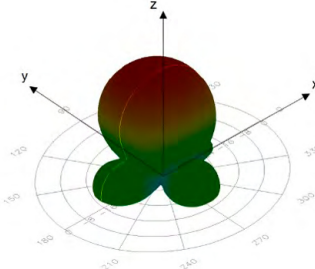
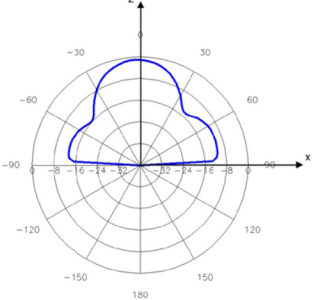
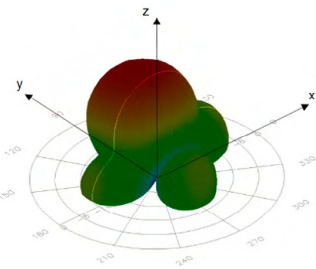
Diagrams

With flange straight or flange right angle connector



Radiation Pattern - US (902-928 MHz)

Radiation Pattern - EU (865-868 MHz)





Product Variations

Product Code	Connector Type	FCC (902-928 MHz)	ETSI (865-868 MHz)
	Flange Straight	VUL-ADAN-P33US-FLSMA-200	VUL-ADAN-P33EU-FLSMA-200
	Flange Right Angle	VUL-ADAN-P33US-FRSMA-200	VUL-ADAN-P33EU-FRSMA-200

Accessories & Compatible Products

Vulcan RFID™



VUL-MAPPER

Vulcan RFID™



VUL-ADHD-ADANP33-100

Vulcan RFID™



195-RP-TNC-M-SMA-M-12
240-RP-TNC-M-SMA-M-25
400-RP-TNC-M-SMA-M-35

*For custom cable connectors or lengths please [contact us](#).

About Vulcan RFID™ Products

Vulcan RFID™ offers a broad range of innovative RFID antennas, RFID inlays, custom RFID tags, and accessories suited for a wide variety of industries and applications. With an extensive portfolio, Vulcan RFID™ products are manufactured to withstand environments ranging from mild to extreme. All Vulcan RFID™ products are thoroughly tested and built on a name you can trust. Vulcan RFID™ products enable you to reach and sustain high levels of performance with your UHF or NFC frequency application.



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