



Product Family | Circularly Polarized RFID Antenna (902-928 Mhz)
Product Code | VUL-60001

A5010

CIRCULAR POLARIZED

ANTENNA

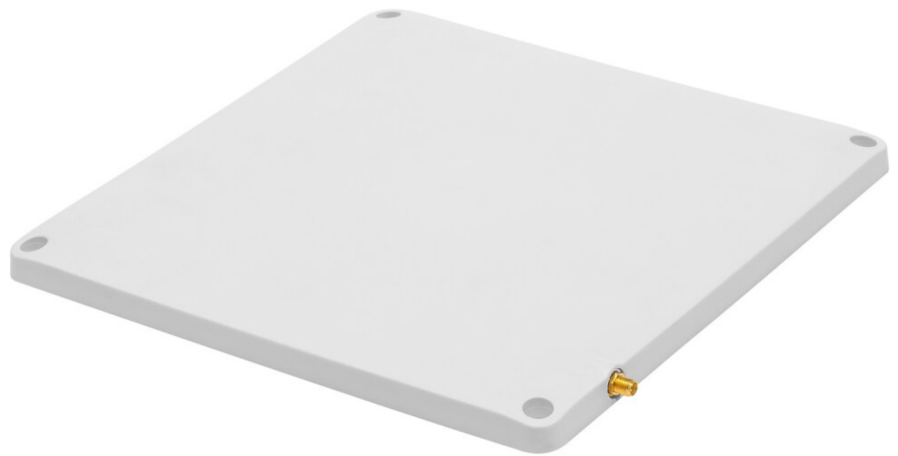
The Vulcan RFID™ A5010 Circular Polarized Antenna is the perfect antenna for permanent outdoor use and more.

The IP67 rating lends to its rugged design for industrial applications, while maintaining an ultra-low profile and slim aesthetic making it ideal for space constrained environments.

The Vulcan RFID™ A5010 is a proven antenna for a wide range of applications including:

- Race Timing
- Medical & Pharmaceutical
- Retail
- Warehousing

This antenna provides a **read range up to 9 m (29 ft)** with reflection protection that guarantees uninterrupted high read performance.





Specifications

ELECTRICAL	Operating Frequency:	FCC (902-928 Mhz)
	Polarization:	Right hand circular
	Gain:	8.5 dBic
	Max Read Distance:	Up to 8 m (29 ft)
	Elevation Beamwidth:	68°
	Azimuth Beamwidth:	68°
	VSWR:	1.3 typical
	Front to Back Ratio:	-20 dB
	Axial Ratio:	1 dB typical
	Nominal Impedance:	50 Ω
	Anti-Static Protection:	DC grounded
	Antenna Detection:	10 K Ω resistance
	Maximum Input Power:	3 W

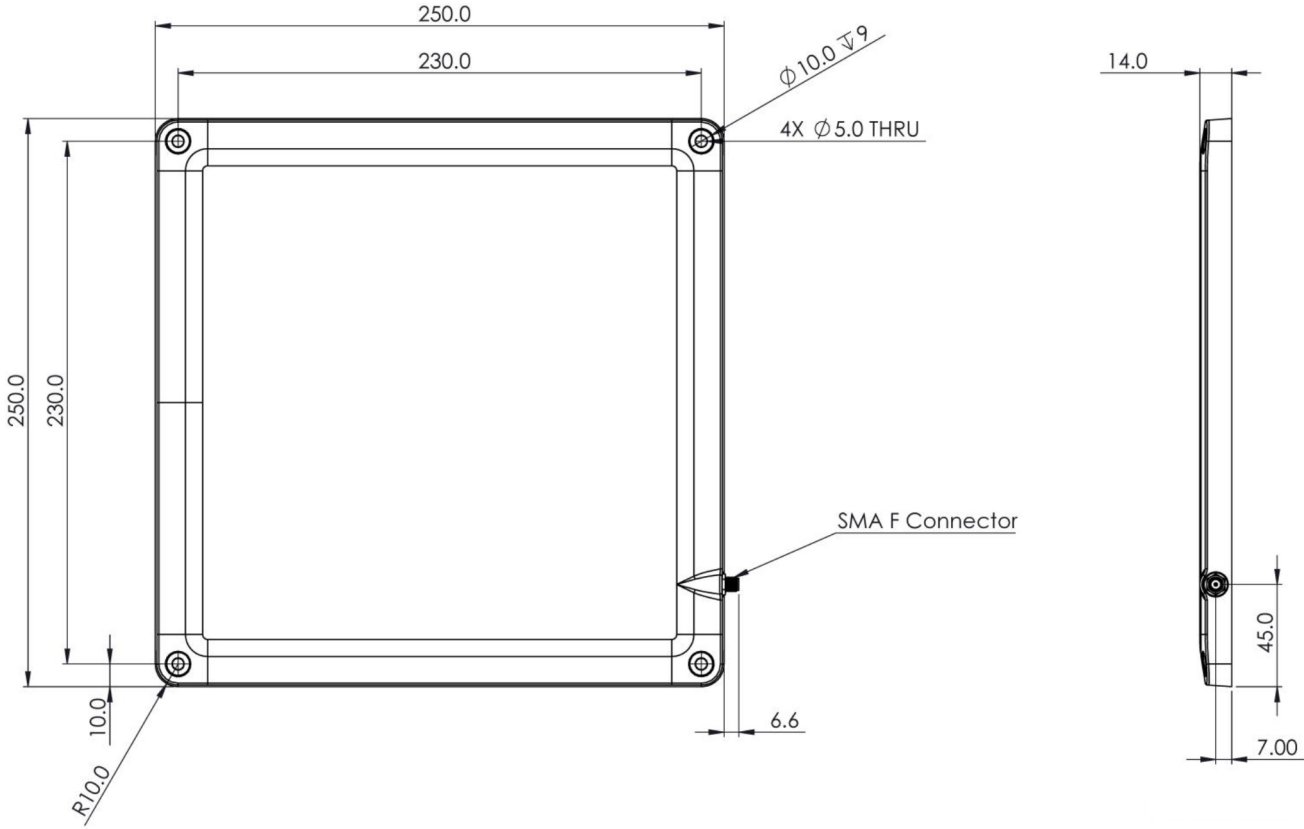
MECHANICAL	Connector Type:	SMA female (connects to SMA male)
	Mounting:	Flush mount
	Cable:	Not included
	Dimensions:	250 x 250 x 14 mm (9.85 x 9.85 x 0.55 in)
	Weight:	0.73 kg (1.6 lbs)
	Radome Material:	UV-Resistant ABS

ENVIRONMENT	Operating Temperature:	-20° to +55°C (-4° to +131°F)
	IP Rating:	IP 67

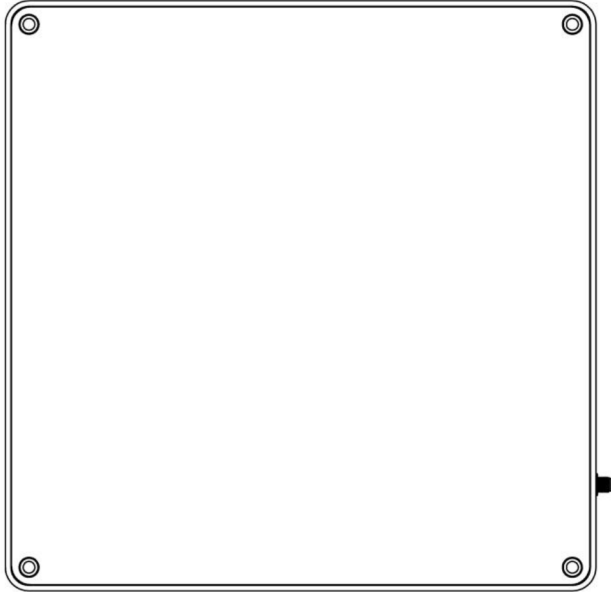


Diagrams

A5010 Flush Mount



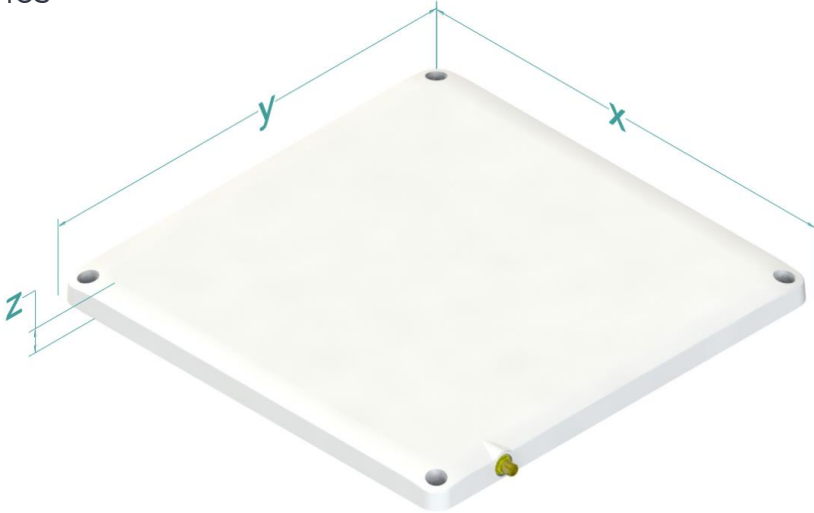
A5010 Flush Mount Backside



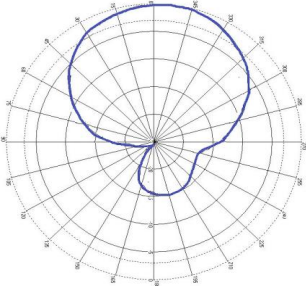


Diagrams

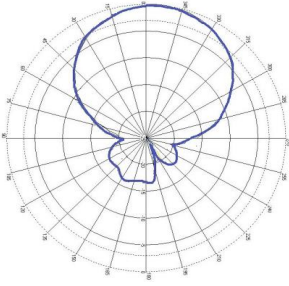
Azimuth Planes



E-field Radiation Pattern

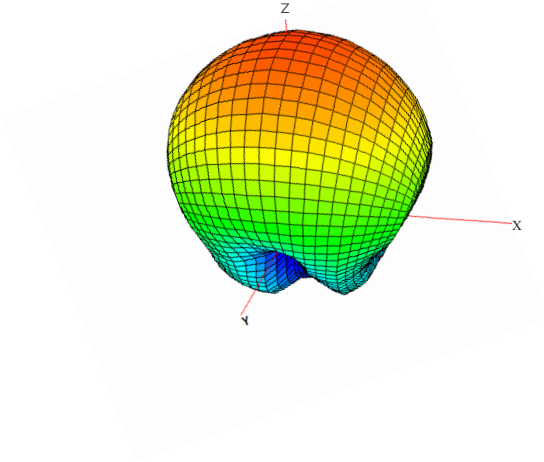


XZ-plane



YZ-plane

3D E-field Radiation





Accessories & Compatible Products

Vulcan RFID™



VUL-MAPPER

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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