



FS-GA203/204/205

– FAVITE UHF RFID Antenna for Fix Readers



Favite's general purpose antennas are optimized for UHF RFID system and complement the outstanding performance and range offered by Favite's readers and tags. The all-purpose antennas can be used for both indoor or outdoor applications requiring large area coverage.

Able to withstand extreme heat and cold as well as moisture and vibration, the Favite's Reader Antennas are ideal for nearly any applications, including manufacturing, warehouse or indoor asset tracking environments and more. A mounting kit is included for easy deployment.

FS-GA203

High-Performance
Linear Polarization
Indoor-Outdoor
Mono-Static Antenna



Electrical Characteristics

Frequency Range	902-928 MHz (US) / 865-868 MHz (ETSI)
Gain	10 dbi
Polarization	Linear
VSWR	≤ 1.5
Front to Back Ratio	> 15 db
Vertical 3db Beamwidth	48° @ E-Plane
Horizontal 3db Beamwidth	56° @ H-Plane
Impedance	50Ω
Input Power	6 watts (max)

Physical Characteristics

Dimensions(L x W x D)	360 x 220 x 40 mm
Weight	0.938 kg
Connector	Type "N" Female
Connector Position	Bottom
Environmental Sealing	IP65

User Environment

Operating Temperature	-40° to +158°F / -40° to +70°C
Cold Test	IEC-68-2-1 (-40° F/-40° C for 24 hours)
Heat Test	IEC-68-2-2 (158° F/70° C for 24 hours)
Temperature Shock Test	IEC-68-2-14 (-40° F rising to 158°F -40°C rising to 70° C in 10 cycles of 60 minutes each)
Humidity Test	IEC-68-2-30 (77° to 104°F/-25° to 40°C 24 hour cycles of 90% relative humidity)
Rain Test	IEC-68-2-18 (8 hr min in rain chamber at 43 psi)
Salt Fog Test	IEC-68-2-11 (96 hours, repetitive cycling)
Random Vibration Test	IEC-68-2-6 (10 to 150 Hz, 05 g, 1 hour in each of 2 axes)

FS-GA204

High-Performance
Circular Polarization
Indoor-Outdoor
Mono-Static Antenna



Electrical Characteristics

Frequency Range	902-928 MHz (US); 865-868 MHz (ETSI)
Gain	8 dbi
Polarization	Circular, LHCP and RHCP
Return Loss	25db (VSWR = 1.18)
Front to Back Ratio	> 15 db
Vertical 3db Beamwidth	60° @ E-Plane
Horizontal 3db Beamwidth	50° @ H-Plane
Impedance	50Ω
Input Power	6 watts (max)

Physical Characteristics

Dimensions(L x W x D)	260 x 260 x 42 mm
Weight	0.823 kg
Connector	Type "N" Female
Connector Position	Bottom
Environmental Sealing	IP65

User Environment

Operating Temperature	-40° to +158°F/-40° to +70°C
Cold Test	IEC-68-2-1 (-40° F/-40° C for 24 hours)
Heat Test	IEC-68-2-2 (158° F/70° C for 24 hours)
Temperature Shock Test	IEC-68-2-14 (-40° F rising to 158°F/-40°C rising to 70° C in 10 cycles of 60 minutes each)
Humidity Test	IEC-68-2-30 (77° to 104°F/-25° to 40°C 24 hour cycles of 90% relative humidity)
Rain Test	IEC-68-2-18 (8 hr min in rain chamber at 43 psi)
Salt Fog Test	IEC-68-2-11 (96 hours, repetitive cycling)
Random Vibration Test	IEC-68-2-6 (10 to 150 Hz, 05 g, 1 hour in each of 2 axes)

Accessory:
RF Cable SMA to N Jack



FS-GA205

High-Performance
Circular Polarization
Indoor-Outdoor
Bi-Static Antenna



Electrical Characteristics

Frequency Range	902-928 MHz (US); 865-868 MHz (ETSI)
Gain	6 dbi
Polarization	Two circular polarized patch array
VSWR	≤ 1.5
Front to Back Ratio	> 15 db
Vertical 3db Beamwidth	50° @ E-Plane
Horizontal 3db Beamwidth	56° @ H-Plane
Impedance	50Ω
Input Power	6 watts (max)

Physical Characteristics

Dimensions(L x W x D)	360 x 220 x 40 mm
Weight	1.117 kg
Connector	Type "N" Female x 2
Connector Position	Bottom
Environmental Sealing	IP65

User Environment

Operating Temperature	-40° to +158°F/-40° to +70°C
Cold Test	IEC-68-2-1 (-40° F/-40° C for 24 hours)
Heat Test	IEC-68-2-2 (158° F/70° C for 24 hours)
Temperature Shock Test	IEC-68-2-14 (-40° F rising to 158°F/-40°C rising to 70° C in 10 cycles of 60 minutes each)
Humidity Test	IEC-68-2-30 (77° to 104°F/-25° to 40°C 24 hour cycles of 90% relative humidity)
Rain Test	IEC-68-2-18 (8 hr min in rain chamber at 43 psi)
Salt Fog Test	IEC-68-2-11 (96 hours, repetitive cycling)
Random Vibration Test	IEC-68-2-6 (10 to 150 Hz, 05 g, 1 hour in each of 2 axes)

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