



FS-GA206

– EAS Antenna for UHF RFID Reader

Favite's FS-GA206 is a narrow-beam-width UHF Reader antenna which is optimized for EAS applications. This antenna can be installed on the entrance gate of store with different entrance width, and it can detect only 30cm-depth area from entrance gate. All the UHF tags will be only detected only while it is passing through the entrance gate, it will not be detected while the Tags only close to gate without passing through it. The design of this narrow-beam-width UHF Reader antenna is very suitable for EAS applications.



Applications of Favite narrow-beam-width UHF Reader antenna are as follows:

- Anti- theft, Anti-lost System
- EAS System with several lanes

FS-GA206

EAS Antenna
Circular Polarization
Indoor-Outdoor



Electrical Characteristics

Frequency Range	902-928 MHz (US) / 865-868 MHz (ETSI)
Gain	10.5 dBic
Polarization	Circular
VSWR	≤ 1.5
Front to Back Ratio	> 40 dB
Vertical 3db Beamwidth	38 deg @ E-Plane
Horizontal 3db Beamwidth	66 deg @ H-Plane
Impedance	50Ω
Input Power	6 watts (max)

Physical Characteristics

Dimensions(L x W x D)	450 x 250 x 40 mm ³
Weight	1.6 kg
Connector	Type "N" Female
Connector Position	Bottom
Environmental Sealing	IP54

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 (-4° F rising to 158°F -20°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)