

MT-281023/S

2-18 GHz Cavity Backed Spiral Antenna

Electrical

Frequency	2-18 GHz
Gain	-12.0 dBic @ 2.0-2.15 GHz -9.0 dBic @ 2.15-2.5 GHz -3.0 dBic @ 2.5-5.0GHz 0.5 dBic @ 5.0-7.0 GHz 3.0 dBic @ 7.0-18.0 GHz
Polarization	Right Hand Circular
Beam Width (-3 dB) Azimuth and Elevation	80° ± 30°
Beam Squint	± 5° max
Axial Ratio at Bore sight	2 dB max, 1.5 dB average
Front to Back Ratio	-20 dB max
VSWR	5:1 typ 9:1max @ 2.0-2.15 GHz 4:1 typ 5:1max @ 2.15-2.5 GHz 3:1 typ 3.5:1max @ 2.5-17.5 GHz 3.5:1 typ 4:1max @ 17.5-18 GHz
Power Handling	1W
Input Impedance	50 Ω

Mechanical

Diameter	60 mm
Height	50 mm
Weight	120 grams
Connector	SMA Female

Environmental

Humidity	0 to 100%
Vibration	Per MIL-STD-167-1 Type 1
Shock	Per MIL-STD-810D 516.2, parag. 2.2, 160g during 0.7 - 2 ms
Temperature Operating	-25°C to +65°C
Temperature Storage	-40°C to +71°C

Antenna should be under radome