

MT010006CV

2 – 18 GHz 5 dBic Spiral Antenna



Wireless Edge
Antenna Solutions
An MTI Company

Electrical

Frequency	2 – 18 GHz		
Peak Gain (elevation 0° azimuth 0°)	5 dBic @ 2 GHz 5 dBic @ 3 GHz, 4 ± 1 dBic @ 4 – 18 GHz		
VSWR	2:1 typ 3:1 max		
Azimuth and Elevation Beam Width	3 dB 70° ± 10°	6 dB 100° ± 20°	10 dB 120° ± 20°
Polarization	Circular		
Axial Ratio @ 0°	2 dB max @ 2-6 GHz, 3 dB max @ 6-18 GHz		
Axial Ratio @ 35°	3 dB max @ 2-6 GHz, 4 dB typ @ 6-18 GHz		
Input Power	5 W		

Mechanical

Dimensions Ø x L	Ø131 x 60 mm max
Weight	205 gr max
Connector	SMA Plug
Radome	None
Base Plate	Aluminum with chemical conversion coating

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810E Method 501.3 Proc. I & II	24 h	-54° C	
High Temperature	MIL-STD-810E Method 501.3 Proc. I & II	96 h	+85° C	
Temperature/ Altitude	MIL-STD-810C Method 504.2 Proc. I	33 h		40,000 ft
Temperature Shock	MIL-STD-810E Method 503.3	2 h	-45° to +100° C	3 cycles
Vibration	MIL-STD-810F Method 514.5	3 x 1 h/axis		Grms = 23 g Fig 514.5C-8
Shock	MIL-STD-810D Method 516.4 Proc. I	11 msec/axis		3 x 18 g/axis
Humidity	MIL-STD-810E Method 507.3 Proc. I 98% RH @ 45°	240 h		98% RH 10 cycles of 24 h
Salt Spray	MIL-STD-810E Method 509.3 Proc. I	48 h		5% NaCl
Acceleration	MIL-STD-810E Method 513.4 Proc. I			13 g
Rain		30 mm	10 cm/h 18 m/sec	Each side
Sand	MIL-STD-810E Method 510.3 Proc. II			
Dust	MIL-STD-810E Method 510.3 Proc. I			
Solar Radiation	MIL-STD-810E Method 505.3 Proc. I			
Fungus	MIL-STD-810E Method 508.4			

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11 Hamelacha st. Afek Industrial Park, Rosh-Ha'AYin 4809121 | Tel. +972.3.9008900 | Fax. +972.3.9008901