

MT-9001/B

10.15 – 10.65 GHz 10 dBi 90° Sector Antenna

Electrical

Regulatory Compliance	ETSI EN 302 085 V1.1.2 (2001-02) Range 3 RoHS, CE 0682
Frequency	10.5 - 10.65 GHz
Gain	10 dBi min
Gain Flatness	5 dB max over $\pm 45^\circ$
VSWR	2:1 max
3 dB elevation Beam Width	7° nominal
Polarization	Vertical
Sectoral Coverage	90° nominal
Azimuth	ETSI EN 302 085 V1.1.2 Class CS3, Tables 15a/15b
Elevation	ETSI EN 302 085 V1.1.2 Figure 6.4
Input Impedance	50 ohm
Input Power	6 W max

Mechanical

Dimensions	250 x 250 x 19.3 mm max
Weight	1.45 kg max
Connector	SMA Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72 h	-55 °C	
High Temperature	IEC 68-2-2	72 h	+71 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45 °C +70 °C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M3
Shock Mechanical	IEC 60721-3-4			4M3
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	1000 h		
Flammability	UL 94			Class HB
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival			220 Km/h
	Operation			160 Km/h
Wind Load	Front Thrust			18 kg
Survival	Side Thrust			1.4 kg

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