

MT-485001

5.15 – 5.875 GHz 18 dBi Directional Antenna

Electrical

Regulatory Compliance	ETSI EN 302 085 v1.1.2(2001-2006)
Frequency	5.15 - 5.875 GHz
Gain	17.5 dBi min @ 5.15 - 5.25 GHz 18 dBi min @ 5.25 - 5.875 GHz
VSWR	1.5:1 typ, 1.9:1 max
3 dB Beam Width	18° typ
Polarization	Vertical or Horizontal
Azimuth Side Lobes Level	ETSI EN 32 085 V1.2.2 TS1-TS3 @ 5.15 - 5.875 GHz -13dB max @ 5.15 - 5.875 GHz
Elevation Side Lobes Level	-8dB @ 5.15 – 5.35 GHz TS1-TS3 @ 5.35 – 5.875 GHz
Cross Polarization	ETSI EN 32 085 V1.2.2 TS1-TS3 -21 dB max
F/B Ratio	ETSI EN 32 085 V1.2.2 TS1-TS3 - 30 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions	190 x 190 x 30.5 mm max
Weight	0.7 kg max
Connector	N – type 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			10.5 kg
Survival	Side Thrust			1.6 kg

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