

# MT-446002/N

4.4 – 5.1 GHz 27 dBi Directional Antenna

## Electrical

Regulatory Compliance	ETSI EN 302 085 V1.2.2 (2003-08) RoHS, CE 0682
Frequency	4.4 – 5.1 GHz
Gain	27 ±0.5 dBi
VSWR	1.7:1 typ, 1.9 :1 max
3 dB Beam Width	6° typ
Polarization	Vertical or Horizontal
Side Lobes Level	ETSI EN 302 085 V 1.2.2 (2003-08) Range 1, TS1-TS5 -10 dB max – 1 <sup>st</sup> -15 dB max – 2 <sup>nd</sup> -17 dB max – 3 <sup>rd</sup>
Cross Polarization	ETSI EN 302 085 V 1.2.2 (2003-08) Range 1, TS1-TS5 -20 dB max
Cross Polarization Discrimination	-30 dB max
F/B Ratio	-40 dB max
Input Impedance	50 ohm
Input Power	10 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	600 x 600 x 51 mm max
Weight	5 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 4M5
Shock Mechanical	IEC 60721-3-4			4M5
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			103.6 kg
Survival	Side Thrust			8.6 kg

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