

# MT-223010/N

757 – 788 MHz 11.5 dBi Directional Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	757 - 788 MHz
Gain at Horizon	11.5 dBi min
VSWR	2:1 max
3 dB Azimuth Beam Width	40° typ
3 dB Elevation Beam Width	40° typ
Polarization	Linear Vertical or Horizontal
Side Lobes Level	-13 dB max
Cross Polarization Azimuth	-18 dB typ, -15 dB max
Cross Polarization Elevation	-25 dB max
F/B Ratio	-16 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	450 x 450 x 30 mm max
Weight	3 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 Speed	Front Thrust			57.8 kg
Survival	Side Thrust			3.9 kg

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