

MT-30042/N

10.15 – 10.68 GHz 16 dBi 90° Sector Antenna

Electrical

Frequency	10.15 - 10.68 GHz
Gain	16 dBi min
VSWR	1.7 : 1 max
Azimuth Beam Width @ 13dBi gain	90° typ
Polarization	Linear Vertical
Elevation Beam Width	4.5° typ
Sidelobes Level	ETSI EN 302 085v 1.1.2 CS3
Cross Polarization	ETSI EN 302 085v 1.1.2 CS3
F/B Ratio	ETSI EN 302 085v 1.1.2 CS3
Input Impedance	50 ohm
Input Power	6W max
Lightning Protection	DC Grounded

Mechanical

Dimensions	360 x 265 x 20 mm max
Weight	1.2 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 (Survival):	Front Thrust			27.5 kg
	Side Thrust			2.1 kg

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