

# MT-223002/NV

698 - 746 MHz 12 dBi 120° Sector Antenna

## Electrical

Frequency	698 - 746 MHz
Gain	12 ±0.5 dBi min
VSWR	1.7:1 max
Azimuth Beam Width	120° ± 6°
Elevation Beam Width	14° typ
Polarization	Linear Vertical
Cross Polarization	-20 dB max
F/B Ratio	-20 dB typ
Input Impedance	50 ohm
Input Power	20 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	1550 x 510 x 145 mm max
Weight	8 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			IP54
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 Survival	Front Thrust			225.7 kg
	Side Thrust			64.2 kg

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