

# MT-443008/NVH

4.4 – 5.1 GHz 15 dBi 90° Dual Pol Sector Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	4.4 – 5.1 GHz
Gain	15 ± 1 dBi
VSWR	1.7:1 typ, 2 :1 max
Azimuth Beam Width	
Port V	90° typ @ 11 dBi
Port H	90° typ @ 10 dBi
3 dB Elevation Beam Width	8° typ
Polarization	Dual Linear Vertical and Horizontal
Cross Polarization	-20 dB typ
F/B Ratio	35 dB min
Elevation Side Lobes Level	-10 dB min
Port to Port Isolation	30 dB min
Input Impedance	50 ohm
Input Power	20 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	500 x 200 x 30 mm max
Weight	1.6 kg max
Connector	2 x 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			26.8 kg
Survival	Side Thrust			1.3 kg

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