

# MT-384022/NVH

3.3 – 3.8 GHz 14.5 dBi Dual Pol Directional Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682	
Frequency	3.3 – 3.8 GHz	
Gain	14 ±1 dBi @ 3.3 - 3.4 GHz 14.5 ±1 dBi @ 3.4 – 3.8 GHz	
VSWR	1.5:1 typ, 2:1 max	
Azimuth Beam Width	Port V	25° typ
	Port H	25° typ
Elevation Beam Width	Port V	25° typ
	Port H	25° typ
Polarization	Dual Linear Vertical & Horizontal	
Side Lobes Level	-13 dB typ	
Cross Polarization - Port H	-14 dB typ @ 3.3 - 3.4 GHz	
	-18 dB typ @ 3.4 - 3.8 GHz	
Cross Polarization Port V	-16 dB typ @ 3.3 - 3.4 GHz	
	-18 dB typ @ 3.4 - 3.8 GHz	
Port to Port Isolation	30 dB typ	
F/B Ratio	-30 dB typ	
Input Impedance	50 ohm	
Input Power	6 W max	
Lightning Protection	DC Grounded	

## Mechanical

Dimensions	190 x 190 x 30.5 mm max	
Weight	0.7 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 4M3
Shock Mechanical	IEC 60721-3-4			4M3
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67
Solar Radiation	ASTM G53	1000 h		
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			10.5 kg
Survival	Side Thrust			1.6 kg

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