

MT-445003/NVH

4.4-5.1 GHz 22 dBi Dual Pol Directional Antenna

Electrical

Regulatory Compliance	ETSI EN 302 085 V1.2.2, (2003-08) Range 1 RoHS, CE 0682	
Frequency	4.4 – 5.1 GHz	
Gain	Port H	20.7 ±0.7 dBi
	Port V	22.8 ±0.7 dBi
VSWR	2.0 :1 max 1.5:1 typ	
Azimuth Beam Squint	Port V	± 0.5°
	Port H	± 1.5°
Elevation Beam Squint	± 1.0°	
3 dB Beam Width	10° typ	
Polarization	Dual Linear Vertical and Horizontal	
Side Lobes Level	ETSI EN 302 085 V1.2.2, TS1-TS3	
Cross Polarization	ETSI EN 302 085 V1.2.2, TS1-TS3	
Port To Port Isolation	35 dB min	
F/B Ratio	-35 dB min	
Input Impedance	50 ohm	
Input Power	6 W max	
Lightning Protection	DC Grounded	

Mechanical

Dimensions	371 x 371 x 40 mm max
Weight	2.5 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			39.6 kg
Survival	Side Thrust			4.3 kg

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