

MT-485049/NVH

4.9 – 6 GHz 23 dBi Dual Pol Directional Antenna

Electrical

Regulatory Compliance	ETSI EN 302 085 v1.1.2 (2001-02) RoHS, CE 0682
Frequency	4.9 - 6 GHz
Gain Port H	21 dBi min @ 4.9 - 5 GHz
	22 dBi min @ 5 - 5.35 GHz
	22.5 dBi min @ 5.35 - 5.8 GHz
	21 dBi min @ 5.8 - 5.9 GHz
	20 dBi min @ 5.9 - 6 GHz
Gain Port V	23 dBi min @ 4.9 - 5 GHz
	24 dBi min @ 5 - 5.875 GHz
	23 dBi min @ 5.875 - 6 GHz
VSWR	2.3:1 max @ 4.9 – 4.95 GHz
	1.7:1 typ, 2:1 max @ 4.95 – 5.8 GHz
	2.5:1 max @ 5.8 – 6 GHz
3 dB Beam Width	8° typ
Polarization	Dual Linear Vertical and Horizontal
Side Lobes Level	ETSI EN 302 085 v1.1.2 (2001-02) TS1-TS3 @4.9-5.875GHz
Cross Polarization	ETSI EN 302 085 v1.1.2 (2001-02) TS1-TS3
Port to Port Isolation	-40 dB max
F/B Ratio	-35 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions	371 x 371 x 40 mm max
Weight	2 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	2000 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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