MT-465044/NVH

4.9 – 6.425 GHz 25 dBi Dual Pol Directional Antenna

Wireless Edge Antenna Solutions
An MTI Company

Electrical

Regulatory Compliance		ETSI EN 302 326-3 V1.1.2, (2006-03) RoHS, CE 0682	
Frequency		4.9 - 6.425 GHz	
Gain		25 ±1 dBi @ 4.9-6.1 GHz 23.5 ± 1 dBi @ 6.1-6.425 GHz	
VSWR		1.8:1 typ, 2.2:1 max	
3 dB Beam Width		8° typ	
Polarization		Dual Linear Vertical and Horizontal	
Side Lobes Level	Port H	ESTI EN 302 326-3 V1.1.2 DN3 @ 4.9-5.9 GHz -12 dB typ @ 5.9-6.425 GHz	
	Port V	Azimuth	ESTI EN 302 326-3 V1.1.2 DN3 @ 4.9-5.9 GHz -12 dB(typ) @ 5.9-6.425 GHz
		Elevation	ESTI EN 302 326-3 V1.1.2 DN3 @ 4.9-5.5 GHz ESTI EN 302 326-3 V1.1.2 DN2 @ 5.5-5.9 GHz -12 dB typ @ 5.9-6.1 GHz - 9 dB typ @ 6.1-6.425 GHz
Cross Polarization		-20 dB typ	
Port to Port Isolation		-25 dB typ	
F/B Ratio		-35 dB max	
Input Impedance		50 Ω	
Input Power		6 W max	
Lightning Protection		DC Grounded	

Mechanical

Dimensions	371 x 371 x 38 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 Survival	Front Thrust				39.6 kg
	Side Thrust				4.3 kg

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