

MT-463034/NVH

4.9 - 6.0 GHz, 11.0 dBi 3 Port Sector Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682		
Frequency	4.9 – 6 GHz		
Port No	1	2	3
Polarization	Vertical	Horizontal	Slant
Gain	11 ± 1.0 dBi	11 ± 1.0 dBi	10.5 ± 1.0 dBi
VSWR	1.8:1 typ ,2.1:1 max	1.8:1 typ ,2.1:1 max	1.8:1 typ ,2.1:1 max
	@ 4.9-5.725 GHz	@ 4.9-5.725 GHz	@ 4.9-5.725 GHz
	2.3:1 max @ 5.725-6.0 GHz	2.3:1 max @ 5.725-6.0 GHz	2.3:1 max @ 5.725-6.0 GHz
3 dB Azimuth Beam Width	70° typ	70° typ	65° typ
3 dB Elevation Beam Width	25° min	25° min	20° typ
Elevation Side Lobe Level	-13 dB max	-13 dB max	-10 dB typ
Elevation 1st Null Fill	-20 dB min	-20 dB min	-20 dB min
Cross Polarization Level	-9.0 dB max -15 dB typ	-9.0 dB max -15 dB typ	-9.0 dB max -15 dB typ
F/B Ratio	-25 dB typ	-25 Db typ	-25 dB typ
F/S Ratio*	-10 dB typ	-14 dB typ	-10 dB typ
Port To Port Isolation	-30 dB typ, -25 dB max		
Input Impedance	50 Ω		
Input Power	6 W max		

Mechanical

Dimensions (LxWxD)	192 x 192 x 30.3mm max
Weight	1.0 kg max
Connector	3 x N type Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating
Mounting Kit	MT-120018/A

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			10.5 kg
Survival	Side Thrust			1.6 kg

* The Front to Side Ratio (F/S) is defined as the ratio between the azimuth plane peak gain and radiation pattern level at ±90°

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