

MT-285003/ND

1.78 - 1.85 GHz, 18 dBi Dual Slant Directional Antenna

Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	1.78 – 1.85 GHz
Gain	18 dBi min
VSWR	1.5:1 typ 1.8:1 max
Polarization	Linear Dual Slant $\pm 45^\circ$
3 dB Azimuth Beam Width	$14^\circ \pm 1^\circ$
3 dB Elevation Beam Width	$14^\circ \pm 1^\circ$
Side Lobe Level	-9 dB max -12 dB typ
Cross Polarization	-11 dB max -15 dB typ
Port To Port Isolation	17 dB min 20 dB typ
F/B Ratio	28 dB min 35 dB typ
Input Impedance	50 ohm
Input Power	25 W
Lightning Protection	DC Grounded

Mechanical

Dimensions	600 x 600 x 51 mm max
Weight	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 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 Operation			220 Km/h 160 Km/h

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