

# MT-283014/NV

1.78 – 1.85 GHz 14 dBi Directional Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	1.78 – 1.85 GHz
Gain	14 dBi min
VSWR	1.5:1 typ, 2:1 max
Polarization	Linear Vertical
3 dB Azimuth Beam Width	30° ±2° typ
3 dB Elevation Beam Width	30° ±2° typ
Side Lobe Level	-12 dB max
Cross Polarization	-20 dB typ
F/B Ratio	-25 dB max
Input Impedance	50 ohm
Input Power	6 W
Lightning Protection	DC Grounded

## Mechanical

Dimensions	305 x 305 x 25 mm max
Weight	1.2 kg max
Connector	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
Flammability	UL 94			Class HB
Solar Radiation	ASTM G53	1000 h		
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

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