

# MT-221024/NV

698 – 746 MHz 6 dBi Omni Directional Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	698 – 746 MHz
Gain at Horizon	6 dBi typ, 5.2 dBi min
VSWR	1.6:1
Azimuth Beam Width	360° typ
Azimuth Ripple	± 0.5 dB max
Beam Squint Elevation	± 4.5°, 709 – 735 MHz: ±2.5°
E-Plane Beam width	18.5° ± 1.5°
Elevation Side-Lobes	-12 dB typ, -9 dB max
Polarization	Linear Vertical
Cross Polarization	-15 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	1120 x 45 mm max
Weight	0.5 kg max
Connector	N-type Female
Radome	Plastic

## 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

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