

MT-252003/NV

0.68 – 6.0 GHz 6 dBi Vehicular Antenna

Electrical (on a Ø0.9 m Ground Plane)

Regulatory Compliance	RoHS, CE 0682			
Frequency	0.68 - 1.5	1.5 - 3.3	3.3 - 4.9	4.9 - 6.0
VSWR	2.3:1 @ 0.68 - 0.75 GHz 1.8:1 @ 0.75 - 1.5 GHz	1.8 :1	1.8:1 typ, 2:1	1.8:1 typ, 2:1
Gain - Azimuth 20° Horizon, 3 dB BW	3.0 dBi ±1 dB 360° typ	4 dBi ±1 dB 360° typ	0.5 dBi ±1 dB 2x120° typ	6.0 dBi ±1 dB 2x110° typ
Gain - Azimuth 5° Horizon, 8 dB BW	1 dBi ± 2 dB 360° typ	1.5 dBi typ - 2.5 dBi min 360° typ	2.5 dBi typ 0. dBi min 320° typ	3 dBi typ 0 dBi min 2x140° typ
Gain - Azimuth Horizon, 8 dB BW	0 dBi ± 2 dB 360° typ	1 dBi typ - 4 dBi min 360° typ	1.5 dBi typ -1.5 dBi min 320° typ	2.0 dBi typ -2 dBi min 2x140° typ
Elevation Beam Width	40° typ	40° typ	40° typ	20° typ
Elevation Tilt	+35° typ	+20° typ	+20° typ	+20° typ
Polarization	Linear Vertical			
Input Impedance	50 ohm			
Input Power	25 W CW @ 25 °C			

Mechanical

Dimensions	140 x 70 x 92 mm max
Weight	0.5 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	-STD-810F Method 514.5	30 min/axis		Category 20
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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