

# MT-952018/NV

2.3 – 6.1 GHz, 8dBi Vehicular Antenna

## Electrical

Regulatory Compliance    RoHS , CE

### With Ø1 m ground plane

Frequency Range	2.3-2.5 GHz	2.5-2.8 GHz	3.3-3.8 GHz	4.9-5.47 GHz	5.47-6.1 GHz
Peak Gain	5.0 dBi min @2.3-2.4 6.0 dBi min @ 2.4-2.5	6.0 dBi min 7.0dBi typ	5.5 dBi min 6.5dBi typ	6.5 dBi min 8 dBi typ	6.5 dBi min 8 dBi typ
VSWR	1.8:1	2:1	2:1	1.8:1	1.8:1
Az 3 dB Beam width	360° typ	360° typ	360° typ	180° typ	180° typ
Az 12 dB Beam width	360° typ	360° typ	360° typ	360° typ	360° typ
El Beam width	25° typ	25° typ	20° typ	20° typ	20° typ
El Squint	+20° typ	+20° typ	20° typ	+20° typ	+20° typ

### Without Ø1 m ground plane

Peak Gain	2 dBi min @ 2.3-2.4 3.5 dBi min @ 2.4-2.5	3.0 dBi min 3.5dBi typ	3 dBi min 3.5dBi typ	6.5 dBi min 8 dBi typ	6 dBi min 6.5 dBi typ
Az 3 dB Beam width	360° typ	360° typ	360° typ	180° typ	180° typ
Az 12 dB Beam width	360° typ	360° typ	360° typ	360° typ	360° typ
El Beam width	80° typ	70° typ	70° typ	100° typ	100° typ
El Squint	+40° typ	+40° typ			
Polarization	Linear Vertical				
Power	75 W CW @ 25°C				
Input Impedance	50 Ohm				

## Mechanical

Dimensions	Ø86 x 50.6mm max
Weight	0.15 kg max
Connector	N-Type female length 25.4mm
Radome	High impact acrylic styrene acrylonitrile HRA 150
Radome Color	RAL 7043 dark grey
Base Plate	Aluminum

## Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	DIN EN 60068-2-1	72 h	-40°C	
High Temperature	DIN EN 60068-2-2	72 h	+85°C	
Temp. Cycling	DIN EN 60068-2-1		-40°C - +85°C	
Vibration	DIN EN 60068-2-64	3 x 8hrs.		
Shock Mechanical	DIN EN 60068-2-27	5 Cycles		
Humidity	DIN EN 60068-2-30		-40°C - +85°C	
Water Tightness	DIN EN 60529	30min/1mt		IP67
Solar Radiation				UV Protection
Flammability	UL 94			Class HB
Salt Spray	DIN EN 60068-2-11	96hrs.		
Wind Load				10 N @ 160 Km/h

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