

# MT-446004/N

4.4–5.0 GHz 26 dBi Directional Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	4.4–5.0 GHz
Gain	26.0 dBi min
VSWR	1.7 : 1 max 1.5 : 1 typ
3 dB Beam Width	6° typ
Polarization	Linear Vertical and Horizontal
Side Lobes Level	- 10 dB max – 1 <sup>ST</sup> - 15 dB max – 2 <sup>nd</sup> - 17 dB max – 3 <sup>rd</sup>
Cross Polarization	- 20 dB max
Cross Pol. Discrimination	- 30 dB max
F/B Ratio	-40 dB max
Input Impedance	50 ohm
Input Power	10 W

## Mechanical

Dimensions	640 x 640 x 71 mm max
Weight	5.7 kg max
Connector	N-Type Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating
Color	Polyurethan Per MIL-C – 83286, Green 34094 Per FED-STD-595B

Installation Hardware All installation hardware are stainless steel with black oxide finish (the hardware includes 4 studs on the antenna and a kit of nuts and washers)

## Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810E Method 501.3 proc. I & II	72 h	-40 °C	
High Temperature	MIL-STD-810E Method 501.3 proc. I & II	72 h	+60 °C	
Vibration Loose Cargo	MIL-STD-810F Method 514.4 proc. II cate' 5 Fig 514.5C-5, Table 514.5CI	36 min/axis 2 axis		
Shock Mechanical	MIL-STD-810F Method 516.5 Fig 507.4-1			Drop height 48" 26 drops
Humidity	MIL-STD-810F Method 507.4 proc. IV	10 cycles of 24hr		
Water Tightness	IEC 529			IP65
Salt Spray	MIL-STD-810F Meth 509.4	2x24 hr		
Sand And Dust	MIL-STD-810F Methos 510.4 proc I & II	Blowing sand 9 hr Blowing dust 6 hr		25 mm Radial

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