

# MT-182016/NLH

430 - 437 MHz 9 dBic Reader Antenna



## Electrical

Regulatory Compliance	RoHS, CE0682
Frequency	430 – 437 MHz
Gain	9 dBic min
VSWR	1.4:1 max 1.2:1 typ
3 dB Beam Width	Azimuth: 68° typ Elevation: 70° typ
Polarization	LHCP
Side Lobes level	-10.5 dB max @ ±90°
Axial Ratio At Boresight *	432 – 434MHz @ 2 dB max 430 – 432MHz @ 4 dB max 434 – 437MHz @ 4 dB max
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	371 x 371 x 40 max
Orientation	Rectangular
Weight	2.0 kg max
Connector	N-type
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 to +70 °C	3 Cycles
Thermal Shock Non-Operation			-30°C to +70°C	Ramp 30°C/min
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67*
Dust Resistance				IP67*
Solar Radiation	ASTM G53	1000 h		
Ozone Resistance	ETSI 300			
Flammability	UL 94			Class HB
Quasi Random Vibration				20g rms for 4 hours
Vehicle Vibration Operating	1g rms, 10-500 Hz, in 3 axis		6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.	
Mechanical Shock Operating	10g, 11 msec half sine pulse			

\* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

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