

Electrical

Regulatory Compliance	RoHS, CE 0682, UKCA
Frequency	430 – 440 MHz
Gain	3.5 dBic min 4 dBic typ
VSWR	1.3:1 typ 1.5:1 max @ 430 – 435 MHz 1.5:1 typ 1.7:1 max @ 436 – 440 MHz
3 dB Beam Width	88° typ
Polarization	LHCP
Front to Back	-15 dB max
Axial Ratio at Boresight	3 dB max @ 430 – 431 MHz 2 dB max @ 432 – 434 MHz 3.5 dB max @ 435 – 437 MHz 6 dB max @ 438 – 440 MHz
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded

Mechanical

Dimensions	305 x 305 x 25 max
Orientation	Rectangular
Weight	2.3 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
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			20 g rms for 4 hours	
Vehicle Vibration Operating	1 g rms, 10-500 Hz, in 3 axis		6 hours total, 2 hr in each axis. Accelerated wear – an additional 50 hrs 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