

MT-482016/N/A

## 5.47-5.875GHz 8.5dBi Ultra Low-Cost Integrated Omni Directional Antenna

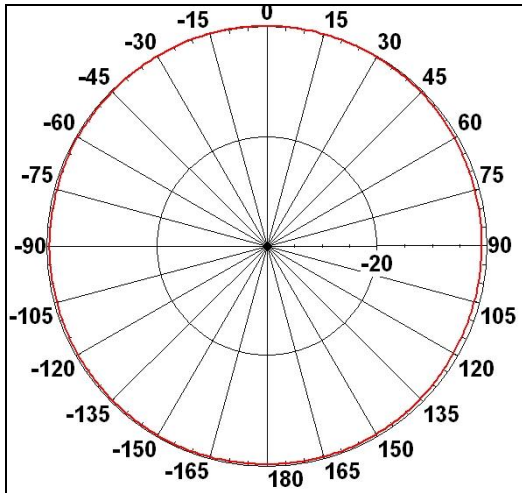


### Specifications

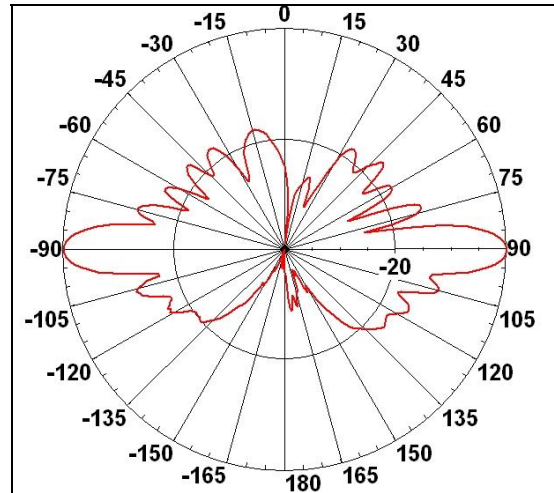
MTI PART NUMBER		MT - 482016/N/A		
<b>ELECTRICAL</b>				
REGULATORY COMPLIANCE		RoHS, CE 0682		
FREQUENCY RANGE		5.47-5.875GHz		
PEAK GAIN + AZIMUTH RIPPLE		7.8 ± 0.6dBi @ 5.47GHz, 9.0 ± 0.6dBi @ 5.725GHz 8.5 ± 0.6dBi @ 5.875GHz		
GAIN @ HORIZON		6.0 ± 0.8dBi @ 5.47GHz, 9.0 ± 0.6dBi @ 5.725GHz 7.5 ± 0.6dBi @ 5.875GHz		
VSWR		1.7:1 (max)		
AZIMUTH BEAMWIDTH		Omni		
ELEVATION BEAMWIDTH		10 ° (typ)		
ELECTRICAL TILTE		-3 ° (typ) @ 5.47 GHz 0 ° (typ) @ 5.725 GHz +2 ° (typ) @ 5.875 GHz		
POLARIZATION		Linear Vertical		
E - PLANE SIDELOBES LEVEL		-10 dB (typ)		
INPUT IMPEDANCE		50 (ohm)		
INPUT POWER		4W (max)		
LIGHTNING PROTECTION		DC Grounded		
<b>MECHANICAL</b>				
DIMENSIONS - DIAMETER X HEIGHT		16mm X 337mm (max)		
WEIGHT		0.5 kg (max)		
CONNECTOR		N-Type Male		
RADOME		Plastic, UV Resistance		
OUTLINE DRAWING		See page 2		
MOUNTING KIT		Mounted to Radio's N-Female output		
<b>ENVIRONMENTAL</b>				
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	IEC 60721-3-4	30 min/axis	-	Random 4M5
MECHANICAL SHOCK	IEC 60721-3-4	-	-	4M5
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS	IEC 529	-	-	IP67
SOLAR RADIATION	ASTAM G53	1000 h	-	-
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
ICE AND SNOW	-	-	-	25mm Radial
WIND SPEED SURVIVAL	-	-	-	220 Km/h
OPERATION	-	-	-	160 Km/h
WIND LOAD SUR. FRONT TH.	-	-	-	1.6 kg
SIDE THRUST	-	-	-	1.6 kg

## 5.47-5.875GHz 8.5dBi Ultra Low-Cost Integrated Omni Directional Antenna

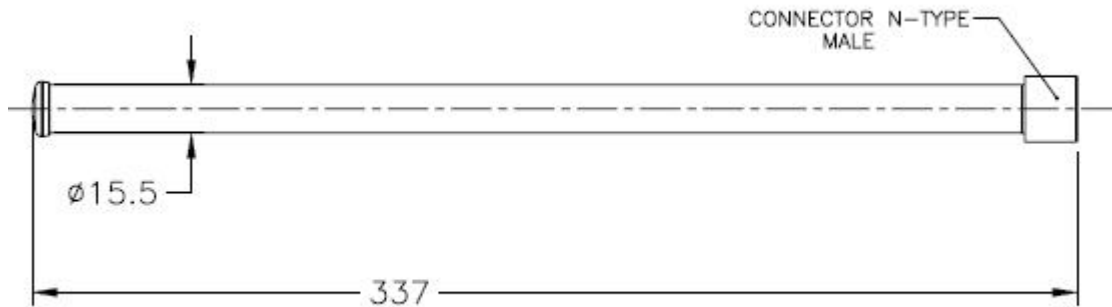
Azimuth Radiation Pattern  
 Midband Freq. 5.725 GHz



Elevation Radiation Pattern  
 Midband Freq. 5.725 GHz



### Dimensions [mm]



### Existing Antenna Versions


MTI Wireless Edge is certified according to ISO 9001 and ISO 14001.

#### WAIVER!

While the information contained in this document has been carefully compiled to the best of our present knowledge, it is not intended as presentation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.

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