

# CIRCULAR ANTENNAS

**MT-262011/TRH/A/K**  
**902-928 MHZ, 8.5 DBIC RHCP READER ANTENNA**



## ELECTRICAL

REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	902 - 928 MHz
GAIN	8.5 dBic (min) , 9.5dBic (max)
VSWR	1.5 : 1 (max) 1.3 : 1 ( typ)
POLARIZATION	RHCP
3dB ELEVATION BEAMWIDTH	63° (typ)
3dB AZIMUTH BEAMWIDTH	63° (typ)
SIDELOBES LEVEL @ ± 90°	-14 dB (max)
F/B RATIO	-18 dB (max)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	3 dB (typ) , 4 dB (max)
LIGHTNING PROTECTION	DC Grounded

## MECHANICAL

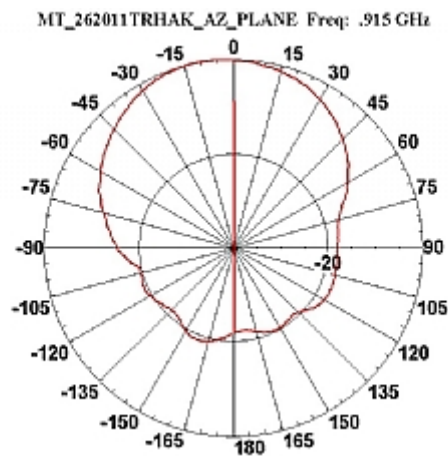
DIMENSIONS (LxWxD)	260x260x25 mm
CONNECTOR	Reverse Polarity TNC
WEIGHT	1.2 kg (max)
MOUNTING KIT	SEE RD41191800C , MT-120018
RADOME MATERIAL	Plastic
BASE PLATE MATERIAL	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD43110200C
ORIENTATION	Rectangular

**ENVIRONMENTAL**

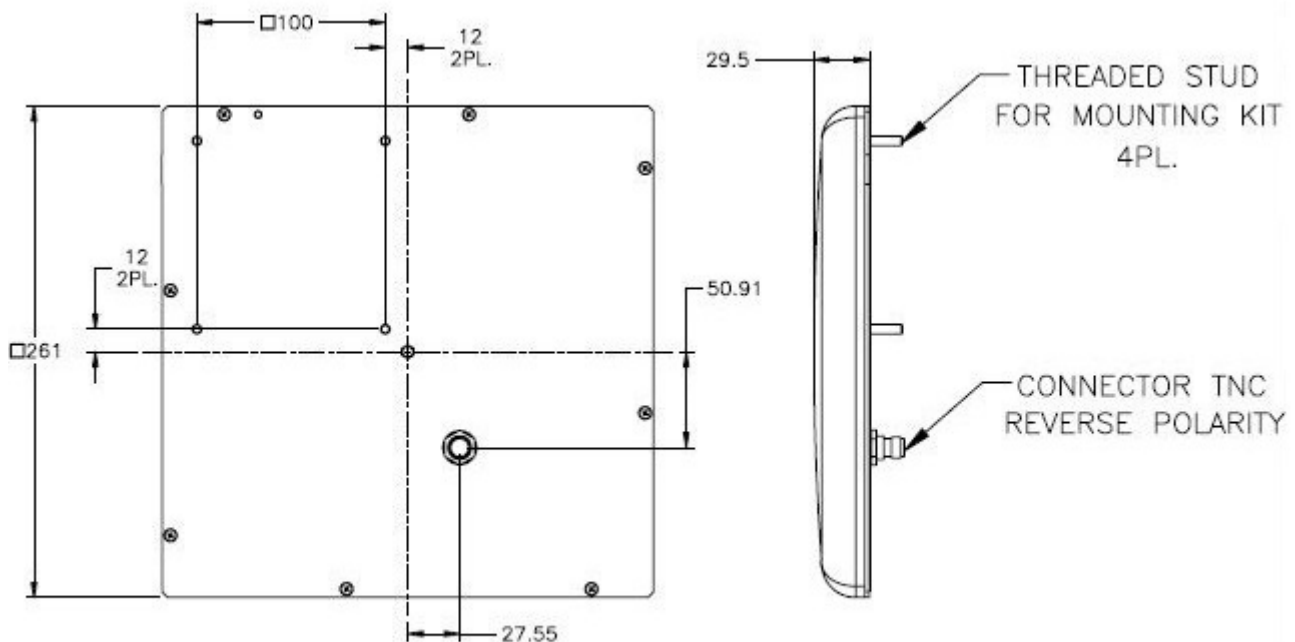
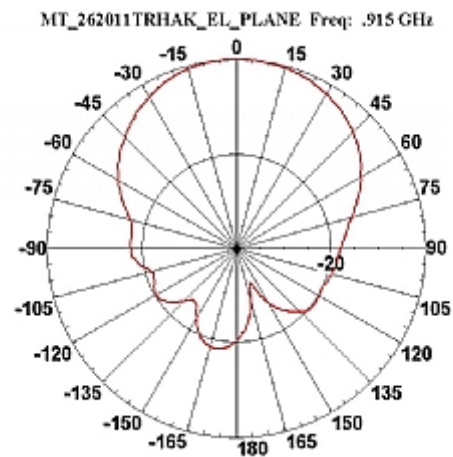
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
THERMAL SHOCK NONO-OPERATING			-30°C to+70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP67
DUST RESISTANCE				IP67
SOLAR RADIATION	ASTM G53	1000h		
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94			Class HB
SALT SPRAY	IEC 68-2-1 Ka	500 h		
ICE AND SNOW				25 mm Radial
WIND SPEED SURVIVAL OPERATION				220 Kh/m 160 Kh/m
WIND LOAD (SURVIVAL) : FRONT THRUST SIDE THRUST				28.6 Km 2.2 Km
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1 grms, 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,11msec, half sine pulse			

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

**AZIMUTH RADIATION PATTERN MIDBAND  
FREQ. 0.915 GHZ**



**ELEVATION RADIATION PATTERN MIDBAND  
FREQ. 0.915 GHZ**



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