CIRCULAR ANTENNAS

MT-242027/NRH/K
865 - 870 MHZ, 8.5DBIC RHCP READER ANTENNA

ELECTRICAL	
REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	865-870 MHz
GAIN	8.5 dBic (min) , 9.5 dBic (max)
VSWR	1.3:1 (max)
POLARIZATION	RHCP
3dB ELEVATION BEAMWIDTH	65° (typ)
3dB AZIMUTH BEAMWIDTH	65° (typ)
SIDELOBES LEVEL @ ± 90°	-12 dB (max)
F/B RATIO	-18 dB (max) -20 dB (typ)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	2 dB (max)
LIGHTNING PROTECTION	DC Grounded
MECHANICAL	
DIMENSIONS (LxWxD)	260x260x30 mm (max)
CONNECTOR	N-Type Female
WEIGHT	1 kg (max)
MOUNTING KIT	SEE RD41191800C , MT-120018
RADOME MATERIAL	Plastic UV Resistant per ETSI 300
BASE PLATE MATERIAL	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD42845900C
ORIENTATION	Rectangular

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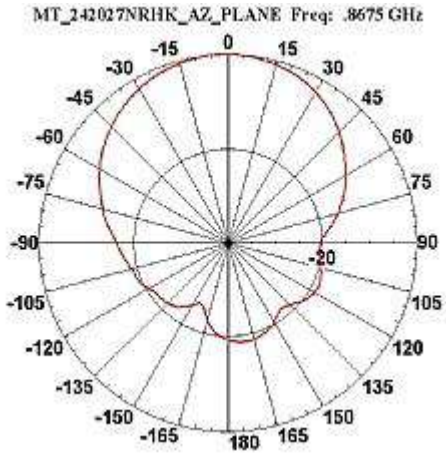
ENVIRONMENTAL

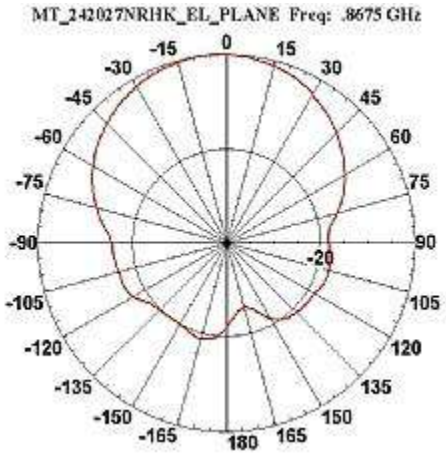
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
THERMAL SHOCK NONO-OPERATING			-30°C to+70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP67(*please see comment below)
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				25mm Radial
WIND SPEED SURVIVAL OPERATION				220 K/h 160K/h
WIND LOAD (SURVIVAL): FRUNT THRUST SIDE THRUST				26.8 Kg 2.2 Kg
QUASI RANDOM VIBRATION				2 0g 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	1 0g,11msec, half sine pulse			

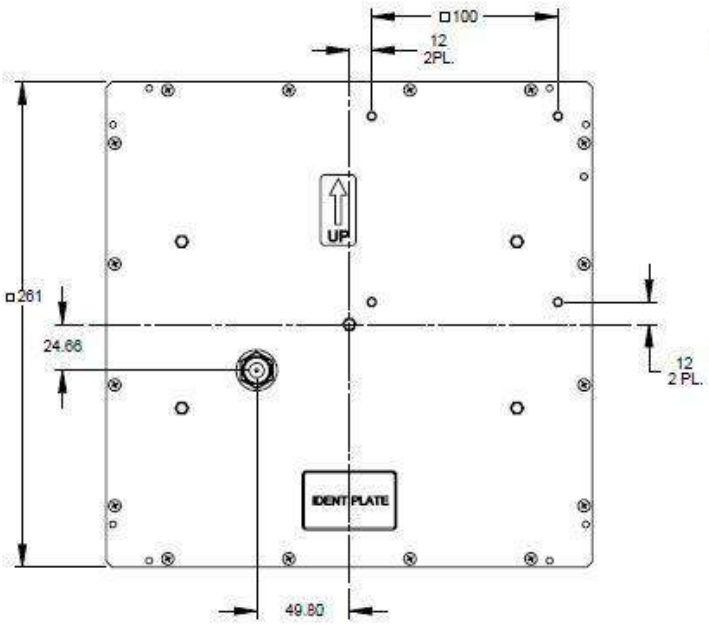
*For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

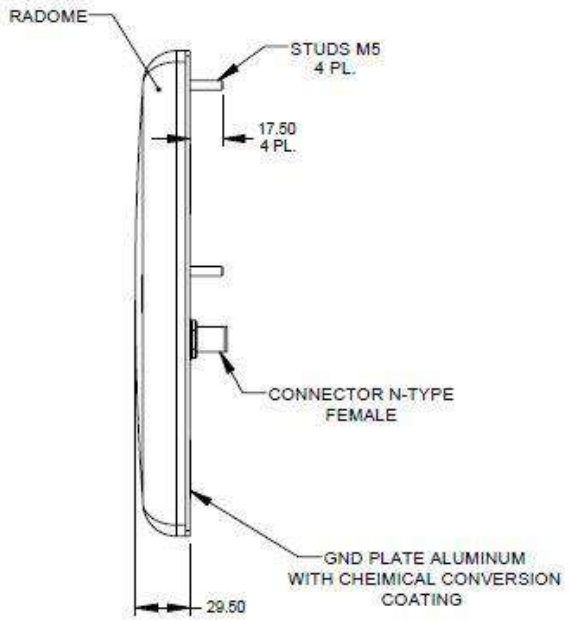
AZIMUTH RADIATION PATTERN MIDBAND FREQ. 0.8675 GHZ

ELEVATION RADIATION PATTERN MIDBAND FREQ. 0.8675 GHZ









WAIVER!

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