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DUAL CIRCULAR ANTENNAS

MT-243010/NRLH
865-870 MHZ, 10 DBIC DUAL RHCP+LHCP READER ANTENNA



ELECTRICAL

REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	865-870 MHz
GAIN	10 dBic (min)
VSWR	1.5 : 1 (max)
POLARIZATION	DUAL RHCP+LHCP
3dB ELEVATION BEAMWIDTH	45° (typ)
3dB AZIMUTH BEAMWIDTH	64° (typ)
SIDELOBES LEVEL @ ± 90°	-14 dB (max)
F/B RATIO	-25 dB (max)
PORT TO PORT ISOLATION	-40 dB (min)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	1.5 dB (typ) 2 dB (max)
LIGHTNING PROTECTION	DC Grounded

MECHANICAL

DIMENSIONS (LxWxD)	920x325x34mm (max)
CONNECTOR	2 xN-Type Female
WEIGHT	4 kg (max)
MOUNTING KIT	MT-120021
RADOME MATERIAL	Plastic UV Resistant per ETSI 300
BASE PLATE MATERIAL	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD41960100C

ORIENTATION

Rectangular

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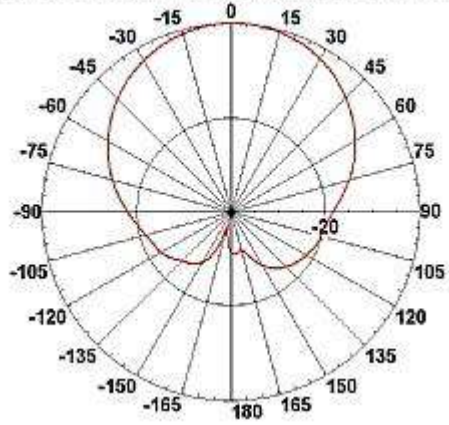
ENVIRONMENTAL

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			IP54
DUST RESISTANCE				IP54
SOLAR RADIATION	ASTM G53	1000h		
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94			Class HB
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			

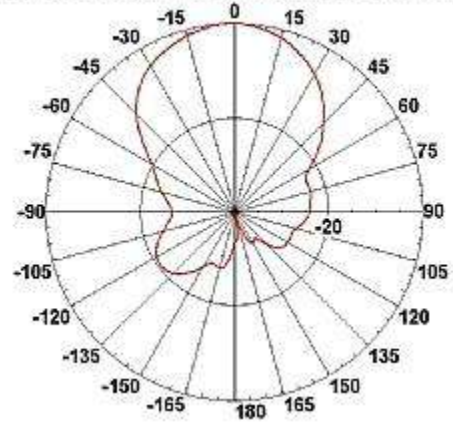
**AZIMUTH RADIATION PATTERN MIDBAND
FREQ. 0.867 GHZ**

**ELEVATION RADIATION PATTERN MIDBAND
FREQ. 0.867 GHZ**

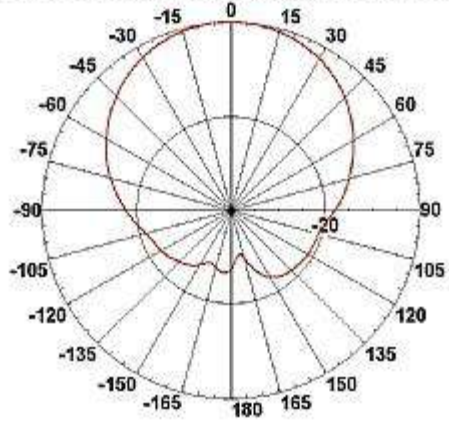
MT_243010NRLH_PORT_1_AZ_PLANE Freq: .867 GHz



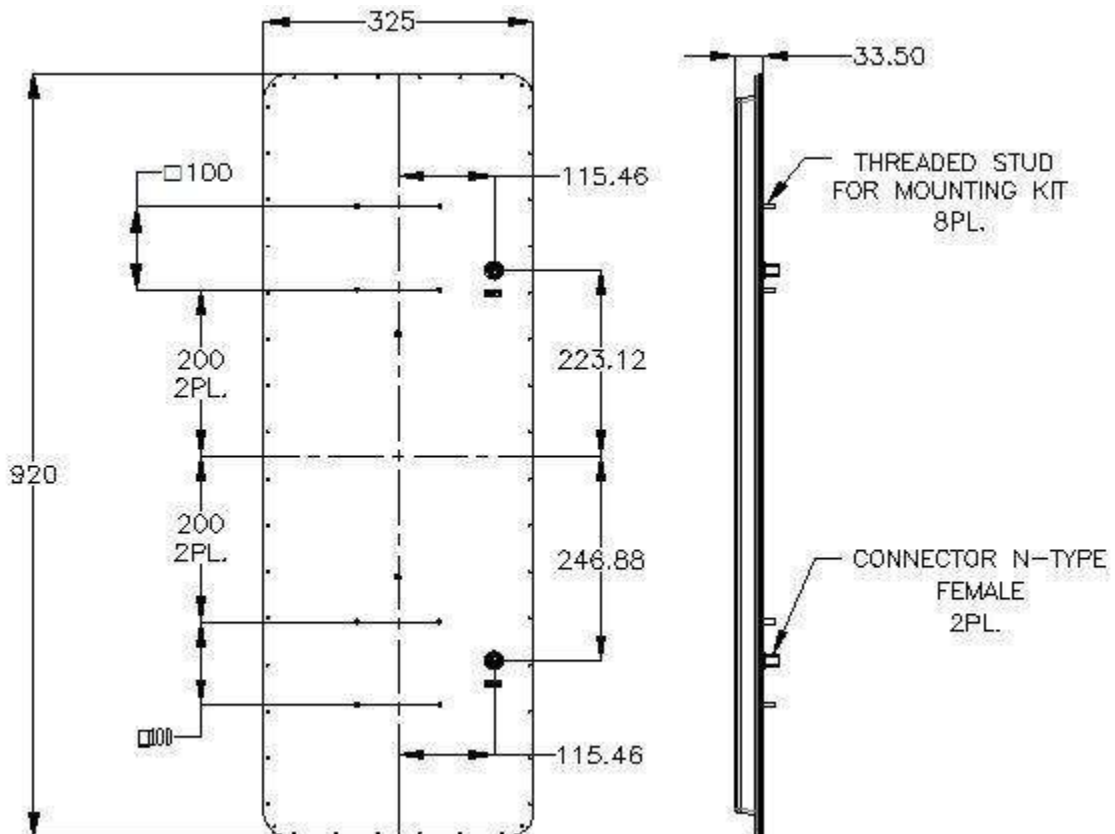
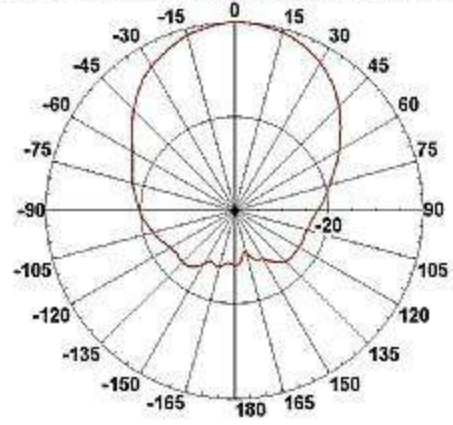
MT_243010NRLH_PORT_1_EL_PLANE Freq: .867 GHz



MT_243010NRLH_PORT_2_AZ_PLANE Freq: .867 GHz



MT_243010NRLH_PORT_2_EL_PLANE Freq: .867 GHz



WAIVER!

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