DUAL CIRCULAR ANTENNAS

MT-242038/NRLH
865-870 6.5 DBIC DUAL RHCP+LHCP READER ANTENNA

ELECTRICAL	
REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	865-870 MHz
GAIN	6 dBic (min) 6.5 dBic (typ)
VSWR	1.2:1 (typ) 1.35 : 1(max)
POLARIZATION	DUAL RHCP+LHCP
3dB ELEVATION BEAMWIDTH	70° (typ)
3dB AZIMUTH BEAMWIDTH	80° (typ)
F/B RATIO	-18 dB (max)
PORT TO PORT ISOLATION	40 dB (min) , 45 dB (typ)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	1.5 dB (max)
LIGHTNING PROTECTION	DC Grounded
MECHANICAL	
DIMENSIONS (LxWxD)	500X200x30 mm (max)
CONNECTOR	2 xN-Type Female
WEIGHT	1.8 (Kgs) (max)
MOUNTING KIT	MT-120018
RADOME MATERIAL	Plastic
BASE PLATE MATERIAL	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD42096400C

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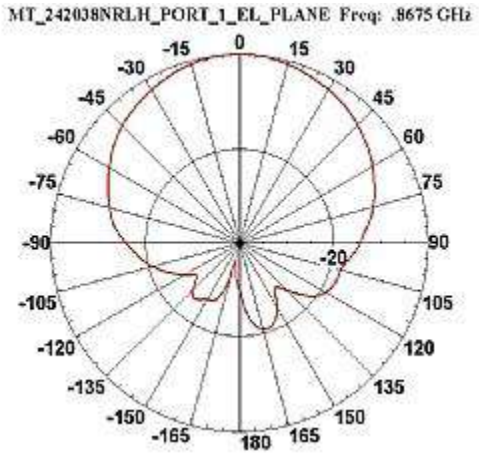
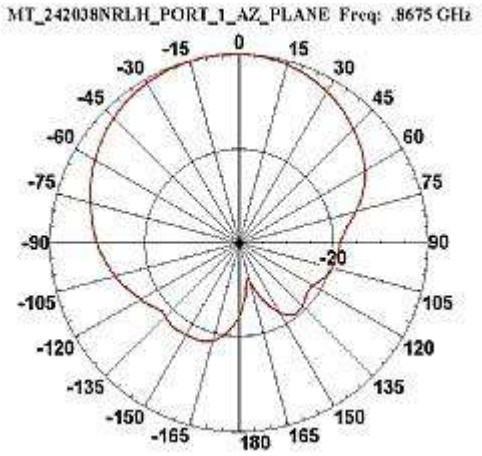
ENVIRONMENTAL

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				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	10g,11msec, half sine pulse			

AZIMUTH RADIATION PATTERN MIDBAND FREQ. 0.8675 GHZ

ELEVATION RADIATION PATTERN MIDBAND FREQ. 0.8675 GHZ

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180
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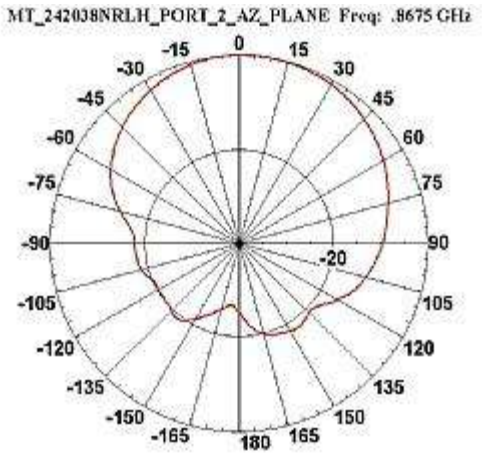
-150
-165
-20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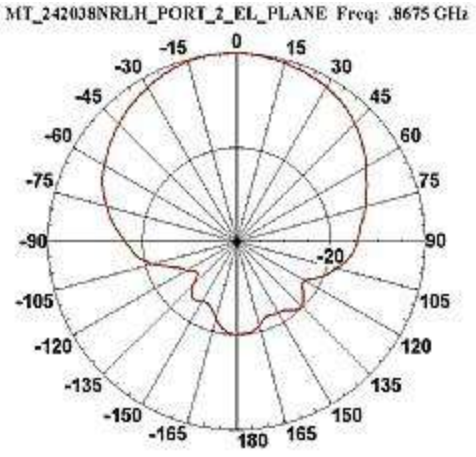
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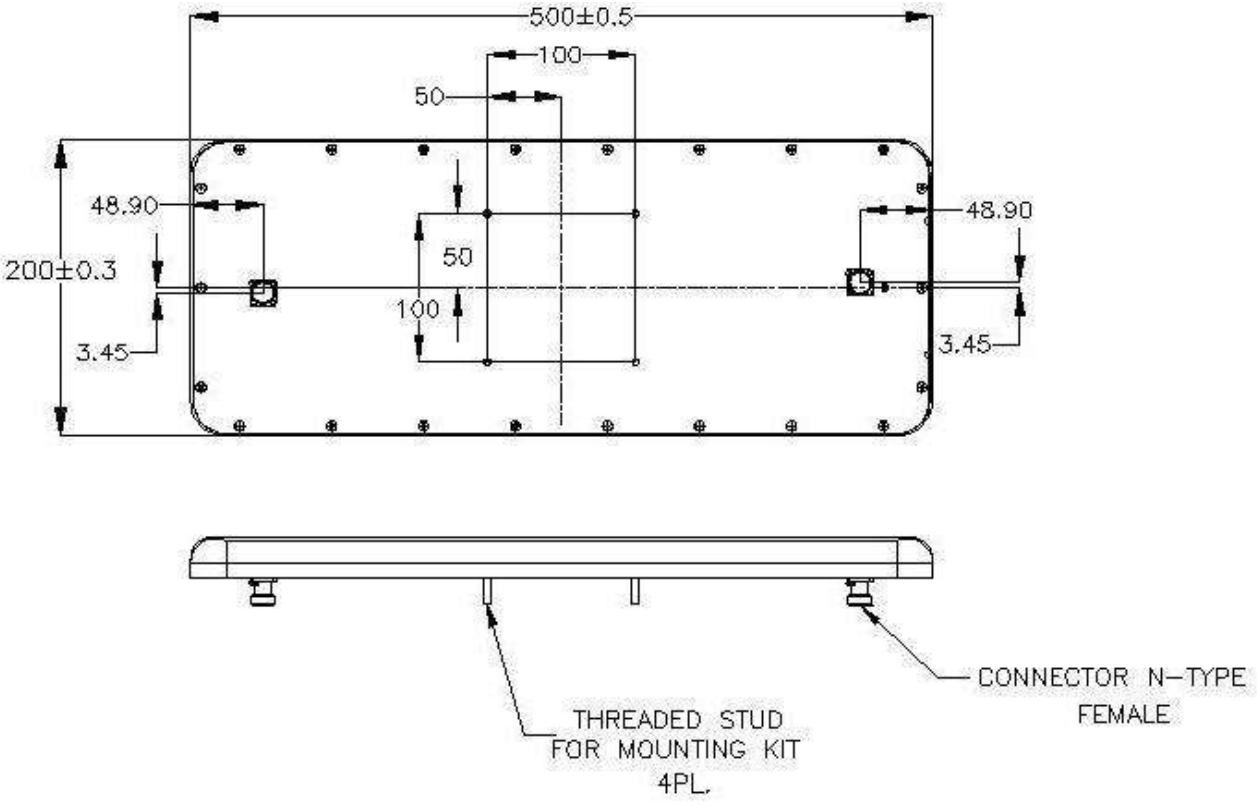
500±0.5
100
50
48.90
48.90
200±0.3
50
100
3.45
3.45
THREADED STUD
FOR MOUNTING KIT
4PL.
CONNECTOR N-TYPE
FEMALE

WAIVER!

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