



**MT-242044/N/K**  
**902 - 928 MHz, 8 dBi LINEAR READER ANTENNA**



**ELECTRICAL**

<b>REGULATORY COMPLIANCE</b>	RoHS, CE 0682
<b>FREQUENCY RANGE</b>	902-928 MHz
<b>GAIN</b>	7.5dBi (min) 8.5dBi (max)
<b>VSWR</b>	1.3 : 1 (typ) 1.35 : 1 (max)
<b>POLARIZATION</b>	Linear (Vertical or Horizontal)
<b>3DB ELEVATION BEAMWIDTH</b>	73°(typ)
<b>3DB AZIMUTH BEAMWIDTH</b>	72° (typ)
<b>F/B RATIO</b>	-16 dB (max)
<b>CROSS POLARIZATION ELEVATION</b>	-17dB (max)
<b>CROSS POLARIZATION AZIMUTH</b>	-12 dB (max)
<b>POWER</b>	6W (max)
<b>INPUT IMPEDANCE</b>	50 (ohm)
<b>LIGHTNING PROTECTION</b>	DC Grounded
<b>MECHANICAL</b>	
<b>DIMENSIONS (LXWXD)</b>	190 x 190 x 30 mm (max)
<b>CONNECTOR</b>	N-Type Female
<b>WEIGHT</b>	0.7 kg (max)
<b>MOUNTING KIT</b>	SEE RD41191800C , MT-120018/A
<b>RADOME MATERIAL</b>	Plastic
<b>BASE PLATE MATERIAL</b>	Aluminum with chemical conversion coating
<b>OUTLINE DRAWING</b>	RD43248300C

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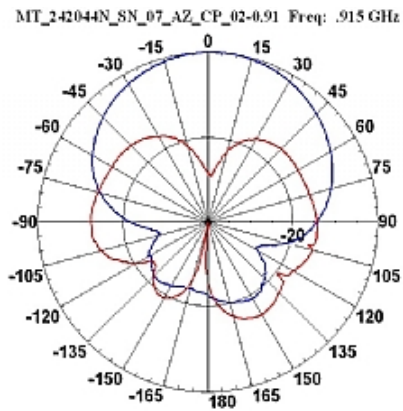
**ENVIRONMENTAL**

TEST	STANDARD	DURATION	TEMPERTURE	NOTES
<b>LOW TEMPERATURE</b>	IEC 68-2-1	72 h	-55°C	
<b>HIGH TEMPERATURE</b>	IEC 68-2-2	72 h	+71°C	
<b>TEMP. CYCLING</b>	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
<b>THERMAL SHOCK NONO-OPERATING</b>			-30°C to+70°C	Ramp 30°C/min
<b>HUMIDITY</b>	ETSI EN300-2-4 T4.1E	144 h		95%

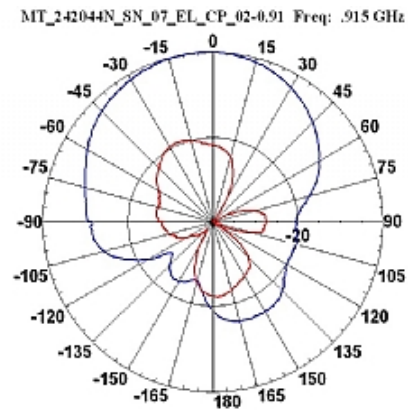
<b>WATER TIGHTNESS</b>	IEC 529	IP67
<b>DUST RESISTANCE</b>		IP67
<b>SOLAR RADIATION</b>	ASTM G53	1000h
<b>OZONE RESISTANCE</b>	ETSI 300	
<b>FLAMMABILITY</b>	UL 94	Class HB
<b>QUASI RANDOM VIBRATION</b>		20g rms for 4 hours
<b>VEHICLE VIBRATION OPERATING</b>	1 grms, 10-500 Hz, in 3 axis	6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.
<b>MECHANICAL SHOCK OPERATING</b>	10g, 11msec, half sine pulse	
<b>WIND SPEED SURVIVAL OPERATION</b>		220 Km/h 160 Km/h
<b>WIND LOAD (SURVIVAL): FRONT THRUST SIDE THRUST</b>		10 kg 1.6 kg

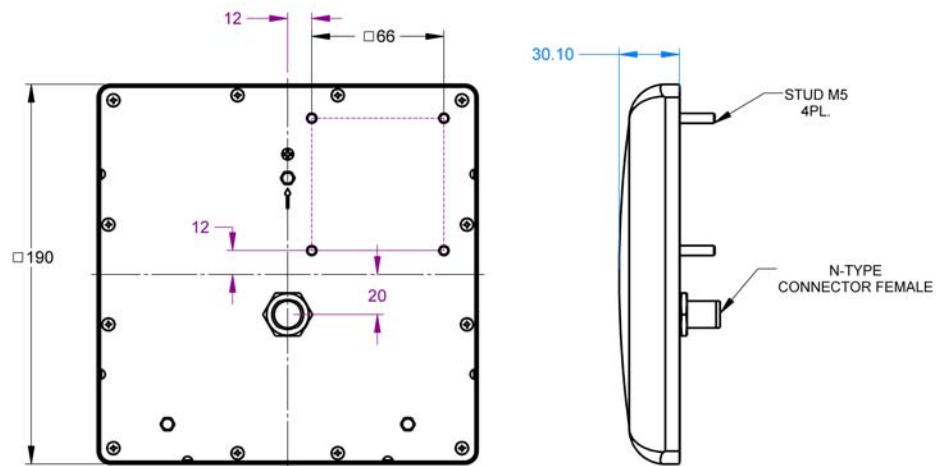
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**AZIMUTH RADIATION PATTERN MIDBAND  
 FREQ. 0.915 GHZ**



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



**WAIVER!**

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