



[Homepage](#) > [Products](#) > [RFID Antennas](#) > [865-870 MHz Reader Antennas](#) > **Circular Antennas**

CIRCULAR ANTENNAS

MT-243017/NRH
865-870 MHZ, 11DBIC RHCP READER ANTENNA



ELECTRICAL

REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	865-870 MHz
GAIN	11 dBic (min) 12dBic (max)
VSWR	1.5 : 1 (max)
POLARIZATION	RHCP
3dB ELEVATION BEAMWIDTH	62° (typ)
3dB AZIMUTH BEAMWIDTH	30° (typ)
SIDELOBES LEVEL @ ± 90°	-12 dB (max) -15 dB (typ)
F/B RATIO	-20 dB (max)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
LIGHTNING PROTECTION	DC Grounded

MECHANICAL

DIMENSIONS (LxWxD)	650x320x40 mm (max)
CONNECTOR	N-Type Female
WEIGHT	2.8 kg (max)
MOUNTING KIT	MT-120019
RADOME MATERIAL	Plastic UV Resistant per ETSI 300
OUTLINE DRAWING	RD42808600C
ORIENTATION	Rectangular

[ADD TO COMPARE PAGE](#) [TO COMPARE PAGE](#)

ENVIRONMENTAL

TEST	STANDARD	DURATION	TEMPERTURE	NOTES
LOW	IEC 68-2-1	72 h	-55°C	

TEMPERATURE

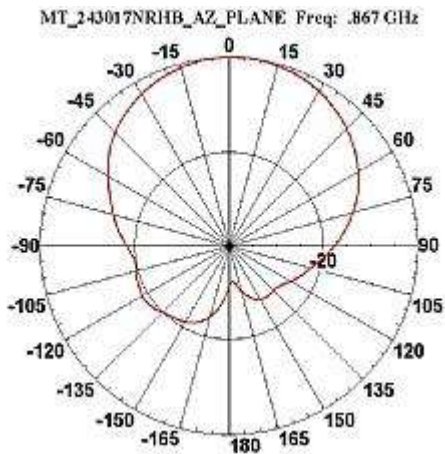
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles

THERMAL SHOCK NONO-OPERATING

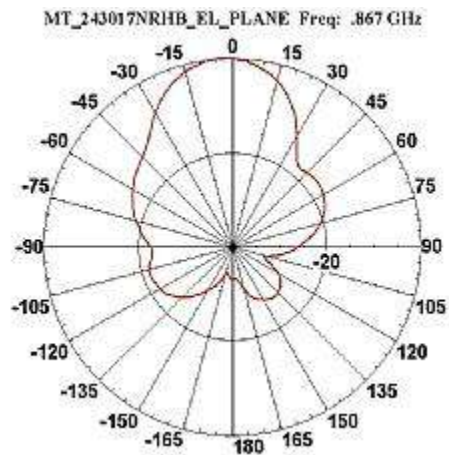
-30°C to+70°C Ramp 30°C/min

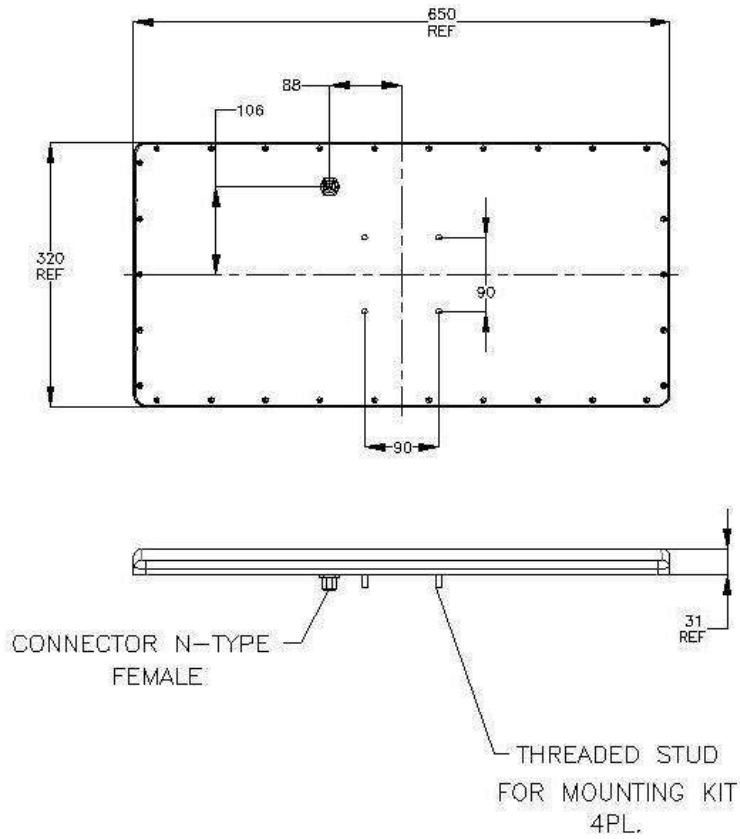
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP54
DUST RESISTANCE				IP54
SOLAR RADIATION	ASTM G53	1000h		
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94			Class HB
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1 grms, 10-500 Hz, in 3 axis			6 hours 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





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