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## CIRCULAR ANTENNAS

### MT-242017/NRH/K 865 - 870MHZ, 10 DBIC RHCP READER ANTENNA



#### ELECTRICAL

REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	865-870 MHz
GAIN	10 dBic (min) 11 dBic (max)
VSWR	1.3:1 (max)
POLARIZATION	RHCP
3dB ELEVATION BEAMWIDTH	48° (typ)
3dB AZIMUTH BEAMWIDTH	60° (typ)
SIDELOBES LEVEL @ $\pm 90^\circ$	-12 dB (max)
F/B RATIO	-20 dB (max)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	2 dB (max) 1 dB (typ)
LIGHTNING PROTECTION	DC Grounded

#### MECHANICAL

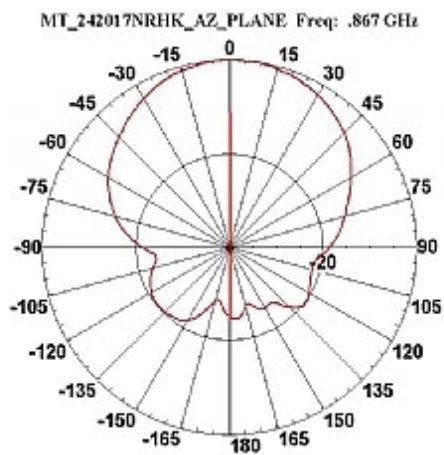
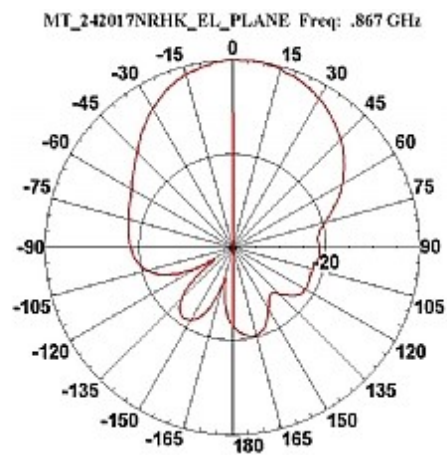
DIMENSIONS (LxWxD)	371 x 371 x 38mm (max)
CONNECTOR	N-Type Female
WEIGHT	1.6 kg (max)
MOUNTING KIT	SEE RD41191800C, MT-120018
RADOME MATERIAL	Plastic
OUTLINE DRAWING	RD43010900C
ORIENTATION	Rectangular

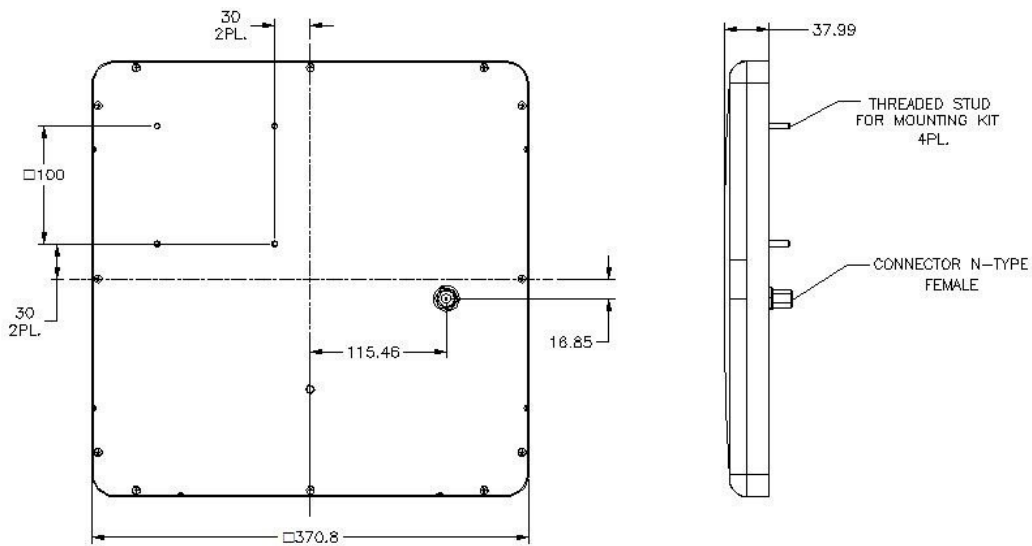
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**ENVIRONMENTAL**

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
VIBRATION	IEC 60721-3-4	30 min/axis		Random4M3
SHOCK MECHANICAL	IEC 60721-3-4			4M3
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP67
SOLAR RADIATION	ASTAM G53	1000h		
SALT SPRAY	IEC 68-2-11 Ka	500h		
ICE AND SNOW				25mm Radial
WIND SPEED SURVIVAL OPERATION				220 Km/h 160 Km/h
WIND LOAD (SURVIVAL)				39.1 kg
FRONT THRUST				4.2 kg
SIDE THRUST				

\*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. 0.867 GHZ**

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




### WAIVER!

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