

# **CIRCULAR ANTENNAS**

MT-242014/NRH/K 865-870 MHZ, 8.5 DBIC RHCP READER ANTENNA



## **ELECTRICAL**

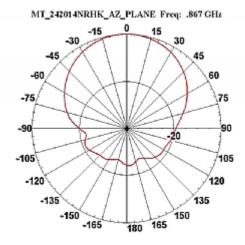
REGULATORY COMPLIANCE	RoHS, CE 0682		
FREQUENCY RANGE	865-870 MHz		
GAIN	8.5 dBic (min) , 9.5 dBic (max)		
VSWR	1.3:1 (max)		
POLARIZATION	RHCP		
3dB ELEVATION BEAMWIDTH	65° (typ)		
3dB AZIMUTH BEAMWIDTH	65° (typ)		
SIDELOBES LEVEL @ ± 90°	-16 dB (max)		
F/B RATIO	-18 dB (max) -20 dB (typ)		
POWER	6W (max)		
INPUT IMPEDANCE	50 (ohm)		
AXIAL RATIO AT BORESIGHT	2 dB (max)		
LIGHTNING PROTECTION	DC Grounded		
MECHANICAL			
DIMENSIONS (LxWxD)	305 x 305 x 25mm (max)		
CONNECTOR	N-Type Female		
WEIGHT	1.2 (kg) (max)		
MOUNTING KIT	SEE RD41191800C		
RADOME MATERIAL	Plastic polycarbonate UV protected color RAL9002		
BASE PLATE MATERIAL	Aluminum with chemical conversion coating		
OUTLINE DRAWING	RD41946900C		
ORIENTATION	Rectangular		

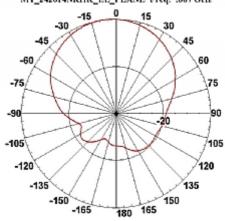
# **ENVIRONMENTAL**

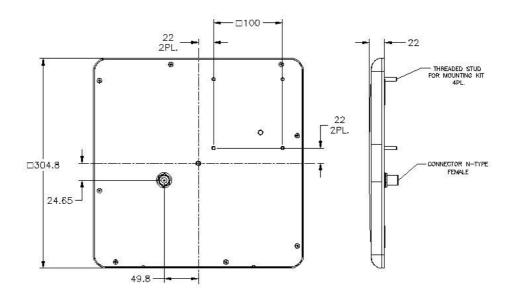
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	
HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
THERMAL SHOCK NONO- OPERATING			-30°C to+70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP67(*please see comment below)
DUST RESISTANCE				IP67
SOLAR RADIATION	ASTM G53	1000h		
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94			Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h		
ICE AND SNOW				25mm Radial
WIND SPEED SURVIVAL OPERATION				220 Km/h 160 Km/h
WINDLOAD (SURVIVAL): FRONT THRUST SIDE THRUST				26.8 Kg 2.2 Kg
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			

<sup>\*</sup>For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

#### MT\_242014NRHK\_EL\_PLANE Freq: .867 GHz







## WAIVER!

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