



MT-243010/NRH

865-870 MHz, 10 dBic, Dual Reader Antenna

Specifications

MTI PART NUMBER		MT- 243010/NRH			
ELECTRICAL					
FREQUENCY RANGE	865 - 870 MHz				
GAIN	10 dBic (min)				
VSWR	1.5:1 (max) 1.3:1(typ)				
AZIMUTH 3 dB BEAMWIDTH	64° (typ)				
ELEVATION 3 dB BEAMWIDTH	45° (typ)				
POLARIZATION	RHCP **See <i>Other Antenna Versions</i> below				
SIDELOBES LEVEL @ ±90°	-14 dB (max)				
AXIAL RATIO AT BORESIGHT	1.5 dB (typ) 2 dB (max)				
PORT TO PORT ISOLATION	-40 dB (min)				
F/B RATIO	-25 dB (max)				
INPUT IMPEDANCE	50 (Ohm)				
INPUT POWER	6 W (max)				
LIGHTNING PROTECTION	DC Grounded				
MECHANICAL					
DIMENSIONS (LxWxD)	920x325x34mm				
ORIENTATION	Rectangular				
WEIGHT	4 kg (max)				
CONNECTOR	2 X N - type Female				
RADOME	Plastic UV Resistant per ETSI 300				
BASE PLATE	Aluminum with chemical conversion coating				
OUTLINE DRAWING	See page 2				
MOUNTING KIT	MT-120021				
ENVIRONMENTAL					
TEST	STANDARD	DURATION	TEMPERATURE	NOTES	
TEMPERATURE	IEC 68-2-1/2	72 h	-55°C to +71°C	-	
TEMP. CYCLING	IEC 68-2-14	1 h	-45°C to +70°C	3 Cycles	
THERMAL SHOCK NON-OPER.			-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	1000 h	-	-	
OZONE RESISTANCE	ETSI 300				
FLAMMABILITY	UL 94	-	-	Class HB	
QUASI RANDOM VIBRATION				20g rms for 4 hours	
VEHICLE VIBRATION OPERATING	1g rms, 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, 11 msec, half sine pulse				

