MT-242026/NRLH/K

865 – 870 MHz 7.5 dBic Dual RHCP & LHCP Reader Antenna

Wireless Edge
Antenna Solutions
An MTI Company

Electrical	
Frequency	865 – 870 MHz
Gain	7.5 dBic min 9.5 dBic max
VSWR	1.5:1 max , 1.4:1 typ
Azimuth 3 dB Beam Width	72° typ
Elevation 3 dB Beam Width	60° typ
Polarization	Dual RHCP & LHCP
Side lobes Level @ ±90°	-10 dB max
Axial Ratio at Boresight	4 dB max
Port to Port Isolation	-35 dB min
F/B Ratio	-18 dB max, -20 dB typ
Input Impedance	50 ohm
Input Power	6 W max
Lightning Protection	DC Grounded
Mechanical	
Dimensions L x W x D	500 x 200 x 26 mm max
Orientation	Rectangular
Weight	1.5 kg max
Connector	2 X N – type Female
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating

Environmental

Test	Standard	Duration	Temperature	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 to +70°C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP67*
Solar Radiation	ASTM G53	1000 h		
Flammability	UL 94			Class HB
Salt Spray	IEC 68-2-11 Ka	168 h		
Ice and Snow				25 mm Radial
Wind Speed: Survival Operation				 220 Km/h 160 Km/h
Wind Load Survival: Frond Thrust Side Thrust				 28.8 kg 4.1 kg

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

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