MT-249568/NRH

865 – 870 MHz Near Field Flat Panel Antenna

Wireless Edge
Antenna Solutions
An MTI Company

Electrical	
Type of Antenna	Magnetic Field Antenna
Regulatory Compliance	RoHS, CE 0682
Frequency	865 – 870 MHz
Reader Type	*
Tag Type	Satellite, Neptune, Button
Tag Orientation	Any
VSWR	2.0:1 max
Range typ from Antenna Surface in mm	0 – 500 Satellite 0 – 40 Neptune 0 - 10 Button
Area coverage of antenna typ	Full surface of Antenna -satellite- > 70% of Antenna surface -Neptune, Button-
Polarization	CP
Input Impedance	50 Ω
Test Power	1 W
Power	2 W max

Mechanical	
Dimensions L x W x D	191 x 191 x 30 mm max
Weight	0.6 Kg max
Connector	N-Type Female
Radome	Plastic UV Resistant per ETSI 300
Base Plate	Aluminum with chemical conversion coating

Environmental				
Test	**Standard**	**Duration**	**Temperature**	**Notes**
Low Temperature	IEC 68-2-1	72 h	-30 °C	
High Temperature	IEC 68-2-2	72 h	+55 °C	
Temp. Cycling	IEC 68-2-14	1 h	-30°C to +55°C	3 Cycles
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP50
Dust Resistance	IEC 529			IP50
Vibration	IEC 60721-3-4	30 min/axis		Random 4M3
Shock Mechanical	IEC 60721-3-4			4M3
Flammability	UL 94			Class HB

* The antenna was tested with Impinji Speedway Reader to evaluate the Antenna.
The antenna performance may change when using another type of reader.

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