

# MT012D05RH

0.5 – 2 GHz 7 dBi Circular Antenna



**Wireless Edge**  
Antenna Solutions  
An MTI Company

## Electrical

Frequency	0.5 – 2 GHz			
Gain	0.5 – 0.6 GHz	0.6 – 0.9 GHz	0.9 – 1.5 GHz	1.5 – 2.0 GHz
	0 dBi min	3 dBi min	5 dBi min	7 dBi min
VSWR	1.7:1 typ 2:1 max (20% of the band)			
3 dB Beam Width	50° min			
Polarization	RHCP			
Impedance	50 Ω			
Power Handling	5 W CW			
Lightning Protection	DC Grounded			

## Mechanical

Dimensions Ø x L	Ø350 x 80 mm typ
Weight	2.5 Kg max
Connector	SMA Female
Base Plate	Aluminum with chemical conversion coating

## Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810 Method 501 Proc. II	72 h	-40° C	
High Temperature	MIL-STD-810 Method 501 Proc. II	72 h	+70° C	
Vibration	MIL-STD-167-1	1 h/axis		Maximum frequency of 33 Hz
Shock Mechanical	MIL-S-901	3 shocks in each direction		25 g horizontal, 50 g vertical
Humidity	MIL-STD-810 Method 507	144 h		95%
Salt Spray	IEC 68-2-11 Ka	168 h		*
Water tightness	IEC 529			*
Solar Radiation	ASTM G53			*
Flammability	UL 94			Class V2
Ice & Snow				*
Wind Speed				*

\* Antenna should be installed under a radome

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