

# MT-799009/WD/A

57-66 GHz, 38.5 dBi 60 GHz Flat Embedded Antenna

## Electrical

Regulatory Compliance	RoHS, CE	
Frequency Range	57 – 66 GHz	
Gain	38 dBi – 39 dBi	
VSWR	1.7 : 1	
3 dB Beam width	1.8°	
Polarization	Single Linear	
XPOL	30 dB	
Side lobe suppression	Mounting polarization	Side lobe suppression
	5° or 95° V or H with 20 dB XPOL	ETSI EN 302 217-4-2 V1 5.1 CLASS 2
	45° Diamond	ETSI EN 302 217-4-2 V1 5.1 CLASS 3
Radome, Recommendations	See table below	
Aperture size, free sight	128.3 x 125.5 mm min	

## Mechanical

Dimensions (LxWxH)	148 x 141.5 x 9.4
Weight	180 gr
Connector	WR-15 Waveguide

## 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 +70°C	3 Cycles
Vibration	IEC 60721-3-4	30min/axis		Random 4M3
Mechanical shock	IEC 60721-3-4			4M3
Flammability	RTCA DO-160E			Section 26, Category C

### Recommendations for Radome Installation

Radome Material	Dielectric Constant	Radome Thickness (mm)	Radome Distance from Antenna (mm, min)
PP	2.25	1.63	2.5
PC	2.75	1.47	2.5
PTFE	2.1	1.68	2.5
HDPE	2.3	1.61	2.5
REXOLITE	2.5	1.54	2.5
NORYL	2.6	1.51	2.5

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