

MA-WA58-1XMMES/EL

5 GHz Broadband Antenna & Enclosure

MARS 5GHz Antenna & Enclosure Solution comprises of:

- Waterproof 5 GHz Broadband Antenna.
- Weatherproof Enclosure with provisions for Az/EI Mounting device.
- Azimuth/Elevation Adjustable Mount MNT-22.

This solution enables WISP/Integrator to design his own low cost, weatherized subscriber unit, saving high costs of special antenna-radio integration.



Specifications

Electrical

Frequency range	4.9-5.875 GHz
GAIN, typ.	23 dBi @ 5.15-5.875 21 dBi @ 4.9-5.15
VSWR, max.	1.5 : 1 @ 5.15-5.875 1.9 : 1 @ 4.9-5.15
Polarization	Linear, Vertical
3 dB Beam-Width, H-Plane, typ.	10.5°
3 dB Beam-Width, E-Plane, typ.	10.5°
Side Lobes, min.	-23 dB
Cross Polarization, min.	-24 dB
Front to Back Ratio, min.	-30 dB
Input power, max.	30 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (Diamond Shape, 12" x 12" x 0.6")
Weight	840 gr. (1.5 kg with Enclosure)
Connector	MMCX with RD316 Coaxial Cable/UFL (Other connector types available on request)
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Enclosure	171 x 167 x 68 mm. (External dimension)
Mount	See ordering options

Environmental

Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 km/h (survival)
Flammability	UL94
Water Proofing	IP-67
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)
Salt Fog	According to IEC 68-2-11
Ice and Snow	25 mm radial (survival)

Standard Compliance

4.9-5.15 GHz ETSI EN 302 085 V1.2.3 – TS1, TS2, TS3
5.15-5.875 GHz ETSI EN 302 085 V1.2.3 – TS1, TS2, TS3, TS4, TS5

Ordering Options

MA-WA58-1XMMES	Antenna with small enclosure MK-ES20/21 and MNT-22 mount
MA-WA58-1XMMEL	Antenna with large enclosure MK-EL30/31 and MNT-22 mount

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

MARS reserves the right to make technical changes or modifications to any of its products and specifications without prior notice and without implementing such changes to prior supplied products. Product images are representative and indicative only. Warranty terms and general conditions of sale are applicable on any purchase of any product, available on MARS website.

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