

MA-WA52-DP19

4.4 – 6.1 GHz Dual Polarization Dual Slant Subscriber Antenna

MARS 5 GHz Dual Polarized Antenna designed to provide full coverage for the 5 GHz frequency band.

Additional Features:

- Dual slant if mounted diagonally.
- Efficient and stable performance.
- High gain/size ratio.
- Lightweight and durable construction.
- UV protected radome made of polycarbonate suitable for harsh weather installations.

MARS 5 GHz Dual Polarized Antenna & Enclosure Solution comprises of waterproof 5 GHz Dual Polarized Antenna and weatherproof enclosure with provisions for Az/EI Mounting device.

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



Specifications

<i>Electrical</i>		
Frequency range		4.4 – 6.1 GHz
Gain		19 ± 1 dBi
VSWR	typ. max.	1.7: 1 2.0: 1
Polarization	Dual pole	Linear, Vertical & Horizontal
3dB Beam-Width, H-Plane, typ.		18°
3dB Beam-Width, E-Plane, typ.		18°
Side Lobes,	typ. min.	-12 dB -10 dB
Cross Polarization, typ.		-20 dB
Front to Back Ratio, min.		-35 dB
Port to Port Isolation,	typ. min.	-30 dB -20 dB
Input power, max.		10 Watt
Input Impedance		50 Ohm
Lightning Protection		DC Grounded
<i>Mechanical</i>		
Dimensions (HxWxD)		200 x 200 x 40 mm (7.9" x 7.9" x 1.6")
Connector		2 x N-type Female
Weight		1.8 kg.
Mounting		See Ordering Options
Radome		UV Protected Polycarbonate
Back Plane		Aluminum protected through chemical passivation.
<i>Environmental</i>		
Operating Temperature Range		-55°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

Ordering Options

MA-WA52-DP19	Antenna 2 x N-Type Female connectors Suited for MNT-23 mount
MA-WA52-DP19B	Antenna 2 x N-Type Female connectors with MNT-23 mount

MARS Antennas & RF Systems proprietary information

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