

MA-WA55-TPMIMO

5.125-6.1 GHz Triple Polarization MIMO Subscriber Antenna

MARS Triple Polarization antenna provides coverage of 5.125-6.1 GHz frequency band in a single antenna radome.

Additional Features:

- 3 Ports: Dual Slant ($\pm 45^\circ$) and Vertical Polarization.
- Specially designed for MIMO applications for optimal decorrelation.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.
- Can be customized with customer defined back plane and different connector configurations.



Specifications

Electrical

Frequency range	5.125-6.1 GHz
GAIN	Vertical Pol. 19 dBi
	Dual Slant Pol. 17.5 dBi
VSWR, max.	1.7 : 1
Polarization	Dual Slant $\pm 45^\circ$ and Vertical
3 dB Beam-Width-Azimuth, typ.	Dual Slant: 20° ; V- Pol 22°
3 dB Beam-Width-Elevation, typ.	Dual Slant: 19° ; V- Pol 14°
Side Lobes, min.	-12 dB
Front to Back Ratio, min.	-35 dB
Port to Port Isolation	-40 dB (Vertical to $\pm 45^\circ$ Dual Slant)
Port to Port Isolation	-30 dB ($\pm 45^\circ$ Dual Slant to $\mp 45^\circ$ Dual Slant)
Input power, max.	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded

Mechanical

Dimensions (HxWxD)	305 x 305 x 15 mm (12" x 12" x 0.6")
Connector	See Ordering Options
Weight	1.5 kg.
Mounting	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation

Environmental

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-WA55-TPMIMO	Antenna with 3 x N-Type Female connectors Suited for MNT-22
MA-WA55-TPMIMOB	Antenna with 3 x N-Type Female connectors with MNT-22 mount
MA-WA55-TPMIMOSMELY	Antenna with large enclosure, 3 x RA SMA female Connectors and MNT-22
MA-WA55-TPMIMOSMELZ	Antenna with large enclosure, 3 x RA SMA female Connectors with PEMs and MNT-22

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

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