

## MA-WA56-DP25N

### 4.9-5.875 GHz Dual Polarized/ Dual Slant 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.
- Light weight 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

#### Electrical

Frequency range		4.9-5.875 GHz
GAIN	V-Pol	23.5 ± 1 dBi
	H-Pol	24.5 ± 1dBi
VSWR, max.		1.7 : 1
Polarization	Dual Pole	Linear, Vertical & Horizontal
	Dual Slant (opt.)	±45°
3 dB Beam-Width, H-Plane, typ.		7°-9°
3 dB Beam-Width, E-Plane, typ.		7°-9°
Side Lobes, min.		ETSI TS3, TS4, TS5
Cross Polarization, typ.		-25 dB
Port to Port Isolation,typ.		-30 dB
Front to Back Ratio, min.		ETSI TS3, TS4, TS5
Input power, max.		5 Watt
Input Impedance		50 Ohm
Lightning Protection		DC Grounded

#### Mechanical

Dimensions (HxWxD)		370 x 370 x 40 mm (14.5" x 14.5" x 1.6")
Connector (without enclosure)		2 x N-Type, Female
Connector (with enclosure)		2 x SMA Female
Weight		1.8 kg.
Back Plane		Aluminum; protected through chemical passivation
Radome		UV Protected Polycarbonate
Enclosure dimensions (external)		287 x 287 x 68 mm.
Enclosure dimensions (internal)		260 x 260 x 45 mm (10.2" x 10.2" x 1.8")
Enclosure internal plate dimensions		245 x 245 mm, height of PCB (from Base for RF to backplane) - 55 mm
Mounting		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

### Ordering Options

MA-WA56-DP25N	Antenna Suited for MNT-22 (optional wall/pole adjustable mount)
MA-WA56-DP25NB	Antenna with MNT-22 mount
MA-WA56-DP25SMELY	Antenna with large enclosure, 2 x SMA Female Connector and MNT-22
MA-WA56-DP25SMELZ	Antenna with large enclosure, 2 x SMA Female Connector with PEMs and MNT-22

Patterns are available on our website

MARS Antennas & RF Systems proprietary information

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