MARS ANTENNAS & RF SYSTEMS LTD.

RoHS COMPLIANT 2011/65/EU

MA-WD78-DP12

7.75-7.9 GHz Dual Polarization Base Station Antenna 90^{O}

MARS 90^{o} Base Station Antenna with12 dBi of gain is lightweight yet has a robust and durable construction.

Antenna Features:

- Quick and easy installation.
- Small, aesthetic and unobtrusive radome.
- Easily adapted to any RF connector.
- Easy mounting allows obtaining required down tilt degree.

Specifications

Electrical	
Frequency range	7.75-7.9 GHz
GAIN, typ.	12 dBi
VSWR, max.	1.7 : 1
Polarization Dual Pole	Linear, Vertical & Horizontal
3 dB Beam-Width, H-Plane, typ.	90^{O}
3 dB Beam-Width, E-Plane, typ.	15^{O}
Side Lobes, min	-12 dB
Cross Polarization, typ.	-15 dB
Front to Back Ratio, min.	-25 dB
Port to Port Isolation, typ.	-25 dB
Input power, max	10 Watt
Input Impedance	50 Ohm
Lightning Protection	DC Grounded
Mechanical	
Dimensions (HxWxD)	155 x 155 x 28 mm (6.1"x 6.1"x1.1")
Connector	2 x N-Type, Female
Weight	250 gr.
Mount	See ordering options
Radome	UV Protected Polycarbonate
Back Plane	Aluminum protected through chemical passivation
Environmental	
Operating Temperature Range	-55 ^{O}C to +65 ^{O}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-WD78-DP12	Antenna Suited for MNT-23 (optional wall/pole adjustable mount)
MA-WD78-DP12B	Antenna with MNT-23 mount

Patterns are available on our website

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