

## MA-WA2458-2DP18

### 2.3 - 2.7 GHz & 4.9 - 5.95 GHz 2 x Dual Band & Dual Polarized Antenna

MARS Dual Band Dual Polarized Antenna provides coverage of 2.3 to 2.7 GHz & 4.9 to 5.95 GHz in a single antenna radome.

The antennas has 2 x Vertical & 2 x Horizontal connectors. Each connector supports dual band 2.5 and 5.5 GHz.



### Specifications

#### Electrical

| Frequency range                | 2.3-2.7 GHz   | 4.9-5.95 GHz  |
|--------------------------------|---|---|
| GAIN, typ.                     | 13 dBi  | 18 dBi  |
| VSWR, max.                     | 2.0 : 1   | 2.0 : 1   |
| Polarization                   | Dual Pole   | Linear, Vertical & Horizontal   |
| 3 dB Beam-Width, H-Plane, typ. | 34°   | 18°   |
| 3 dB Beam-Width, E-Plane, typ. | 34°   | 18°   |
| Side Lobes, typ.               | -10 dB  | -10 dB  |
| Cross Polarization, typ.       | -16 dB  | -18 dB  |
| Port to Port Isolation, min.   | -24 dB @ Adjacent V-pol & H-pol<br>-40 dB @ Distant V-pol & H-pol<br>-38 dB @ Distant V-pol & V-pol<br>-39 dB @ Distant H-pol & H-pol | -28 dB @ Adjacent V-pol & H-pol<br>-50 dB @ Distant V-pol & H-pol<br>-45 dB @ Distant V-pol & V-pol<br>-43 dB @ Distant H-pol & H-pol |
| Front to Back Ratio, min.      | -30 dB  | -35 dB  |
| Input power, max.              | 20 Watt   |   |
| Input Impedance                | 50 Ohm  |   |
| Lightning Protection           | DC Grounded   |   |

#### Mechanical

|                    |  |
|--------------------|--|
| Dimensions (HxWxD) | 370 x 370 x 40mm (14.5" x 14.5" x 1.6")          |
| Weight             | 1.8 Kg   |
| Connector          | 4 x N-Type, Female                               |
| Back Plane         | Aluminum; protected through chemical passivation |
| Radome             | UV Protected Polycarbonate                       |
| 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                  |

### Ordering Options

|                  |                                 |
|------------------|---------------------------------|
| MA-WA2458-2DP18  | Antenna Suited for MNT-22 Mount |
| MA-WA2458-2DP18B | Antenna with MNT-22 Mount       |

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3 Hamanor st. Holon 5886103, P.O.Box 1852 Holon 5811801, Israel

Tel: +972-3-5599661 • Fax: +972-3-5599677 • e-mail: mars@marsant.co.il • web: www.mars-antennas.com