MARS ANTENNAS & RF SYSTEMS LTD.

## 4.7 - 6.425 GHz High Gain, Wideband ,Dual Polarized/Dual Slant Antenna
## MA-WA56-DP28NIF

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

**Additional Features:**

- **efficient and stable performance**
- **high gain/size ratio**
- **durable construction**
- **UV protected radome made of polycarbonate allowing for harsh weather installations**

**Specifications:**

| | | | | | |
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| ***Electrical*** | | | | | |
| **Frequency range** | **4.7-4.9 GHz** | **4.9-5.15 GHz** | **5.15-5.875 GHz** | **5.875-6.1GHz** | **6.1-6.425 GHz** |
| **GAIN V-Pol** | **28±1dBi** | **28.5±0.5 dBi** | **29±0.5 dBi** | **28.5±0.5dBi** | **27.5±1 dBi** |
| **H-Pol** | **27±1dBi** | **28±0.5 dBi** | **28.5±0.5 dBi** | **28 ± 1 dBi** | **27 ± 1 dBi** |
| **VSWR, max.** | **2.7:1** | **2:1** | **1.7:1** | **2:1** | **2.3:1** |
| **Polarization Dual Pole** | **Dual Polarization V&H** | | | | |
| **Dual Slant(Optional)** | **±45º** | | | | |
| **3 dB Beam-Width, typ** | | | | | |
| **H-Plane,.** | **5.5º** | **5.2º** | **4.7º** | **4.4º** | **5º** |
| **E-Plane,** | **5.5º** | **5.2º** | **4.7º** | **4.4º** | **5º** |
| **Side Lobes, min.** | **ETSI TS3** | | | | **ETSI TS 2** |
| **Cross Polarization, min.** | | | | | |
| **V-Pol** | **-26 dB** | **-26 dB** | **-23 dB** | **-23 dB** | **-23 dB** |
| **H-Pol** | **-23 dB** | **-25 dB** | **-23 dB** | **-20 dB** | **-15 dB** |
| **Front to Back Ratio, min.** | **ETSI TS3** | | | | |
| **Port to Port Isolation, typ.** | **-30 dB** | | | | |
| **Input power, max** | **10 Watt** | | | | |
| **Input Impedance** | **50 Ohm** | | | | |
| **Lightning Protection** | **DC Grounded** | | | | |

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|---|---|
| ***Mechanical*** | |
| **Dimensions (HxWxD)** | **600 x 600 x 22 mm ( 23.5"x 23.5"x 0.86")** |
| **Weight** | **4.7 kg** |
| **Connector** | **2x SMA Right Angle Female** |
| **Back Plane** | **Aluminum ; protected through chemical passivation** |
| **Radome** | **UV Protected, Polycarbonate** |
| **Mount** | **Studs Provision for Infinet Radio** |
| ***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** |