

## MA-CQ27-1X

### 380 MHz-6 GHz Multi Band Omni Antenna

MARS Multi Band Omni Antenna covers continuously all the bands from 380 to 960 MHz and for 4G, 3G, 2.5G and 2G cellular, as well as ISM, WLAN, UNII, Bluetooth, Wi-Fi, WMTS IMT-MC450 and LTE.

The antenna is aesthetic and has unobtrusive profile that blends easily with any environment.

The antenna is easy-installed and is highly recommended as an outstanding logistic solution for fast deployments and "In-Building" installations. The antenna is available also for outdoor applications.

The antenna is PIM certified thus making it suitable for all multi-carrier systems.



Available in iBwave database

### Specifications

#### Electrical

| Standard                                     | TETRA, IMT-MC450, WMTS, DVB-T LTE | SMR, AMPS, CDMA, TDMA, GSM 900 | WMTS, PCS, DECT, GSM 1900, UMTS, AWS-3 | Bluetooth, ISM, WLAN | WLL, Broadband access Licensed Band | Homeland Security, UNII, WLL, H-LAN, Wi-Fi |
|--|-----------------------------------|--------------------------------|--|----------------------|-------------------------------------|--|
| Frequency range                              | 380-806 MHz                       | 806-960 MHz                    | 1.395-2.3 GHz                          | 2.3-2.7 GHz          | 3.3-3.8 GHz                         | 4.9-6 GHz                                  |
| GAIN, typ.                                   | 1 (2*)                            | 4                              | 5                                      | 6                    | 6                                   | 6  |
| VSWR, max.                                   | 3:1 (2.5:1*)                      | 2 : 1                          | 2 : 1                                  | 2.6 : 1              | 1.8 : 1                             | 1.6 : 1                                    |
| Polarization                                 | Linear, Vertical                  |                                |  |                      |                                     |  |
| Input power, max                             | 50 Watt                           |                                |  |                      |                                     |  |
| Input Impedance                              | 50 Ohm                            |                                |  |                      |                                     |  |
| PIM, 3 <sup>rd</sup> order, 2X20W (optional) | <-150 dBc                         |                                |  |                      |                                     |  |

#### Mechanical

|                   |   |
|-------------------|---|
| Dimensions(HxWxD) | Base Diameter - 275 mm (10.8"), Height - 187 mm (7.36") |
| Weight            | 550 gr.   |
| Connector         | See Ordering Options                                    |
| Back Plane        | Aluminum; protected through chemical passivation        |
| Radome            | UV Protected Polycarbonate                              |
| Water Proofing    | IP-67 (for outdoor use only)                            |
| Mount             | See ordering options                                    |

#### Environmental

|                       |   |
|-----------------------|---|
| Operating Temp. Range | -40°C to +65°C                            |
| Vibration             | According to IEC 60721-3-4                |
| Flammability          | UL94                                      |
| Humidity              | ETS 300 019-1-4, EN 302 085 (annex A.1.1) |

### Ordering Options

|                |        |   |
|----------------|--------|---|
| MA-CQ27-1X     | N-Type | Antenna Indoor ceiling mounting   |
| MA-CQ27-1XT    | N-Type | Antenna Indoor with DC Return Option, ceiling mounting                  |
| MA-CQ27-1XR    | N-Type | Antenna Outdoor suited for Mount  |
| MA-CQ27-1XRS   | N-Type | Antenna Outdoor for Marine Environment, without Mount, ceiling mounting |
| MA-CQ27-1XRSB  | N-Type | Antenna Outdoor for Marine Environment with Mount                       |
| MA-CQ27-1XRDIN |        | Antenna Outdoor with 4.3-10 Female connector, suited for Mount          |

(\*) Specifications for Ground Plate of 40 cm and up, or above a metal surface, with a spacing of 35-45 mm.

## Patent Pending

Patterns are available on our website.

MARS Antennas & RF Systems proprietary information

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