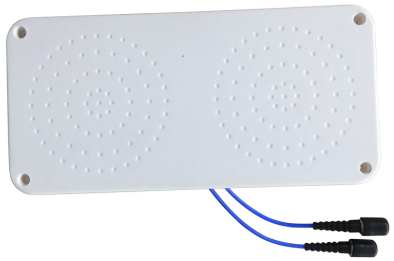
PRODUCT DATASHEET

# I-ATO5-698/3800M

Indoor Omnidirectional MIMO Antenna 698-3800 MHz

The omnidirectional MIMO antenna I-ATO5-698/3800M is designed for broadband in-building DAS applications supporting all kind of safety as well as 4G and 5G commercial wireless communication networks. The antenna combines an aesthetical design with superior electrical characteristics notably a PIM optimized design to minimize network interferences. The antenna is constructed from lightweight materials ideal for easy ceiling mounting. The low profile and off-white radome blends easily into most building aesthetics with minimum visual impact.



I-ATO5-698/3800M

FEATURES / BENEFITS

- **Wideband omnidirectional MIMO antenna, supporting all wireless services in the frequency bands 698-960/1427-2700MHz/3400-3800MHz**
- **Typically used in indoor distribution of 2G / 3G / 4G / 5G wireless services in all standardized frequency bands**
- **PIM optimized antenna design (-153dBc @2x20W)**
- **Aesthetical visual appearance, compact and light weight**
- **Low return loss, stable performance**
- **Pigtail with N-female connector**
- **Ceiling mounting**

## Technical features

### GENERAL SPECIFICATIONS

| | | |
|---|---|---|
| **Product Type** | | Omnidirectional Antenna |
| **Techn. Application** | | Indoor |

### MECHANICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Number of Input Ports** | | 2 |
| **Connectors** | | N female |
| **Connector Cable** | mm (in) | 300 (11.8) |
| **Height (Less Connectors)** | mm (in) | 18 (0.7) |
| **Width (Less Connectors)** | mm (in) | 140 (5.5) |
| **Length (Less Connectors)** | mm (in) | 290 (11.4) |
| **Weight** | kg (lb) | 0.4 (0.18) |

### ELECTRICAL SPECIFICATIONS

| | | | | | |
|---|---|---|---|---|---|
| **Frequenz** | MHz | 698-960 | 1427-1710 | 1710-2700 | 3400-3800 |
| **Gain, typ** | dBi | 2.5 | 4.0 | 4.5 | 5.0 |
| **VSWR** | | 1.8 | 1.8 | 1.8 | 1.8 |
| **Impedance, Ohm** | Ω | 50 | | | |
| **Polarization** | | 2x linear | | | |
| **Intermodulation (IM3)** | | -153 dBc (2 x 43dBm) | | | |
| **Total Input Power max.** | W | 50 | | | |

### MATERIAL

| | | |
|---|---|---|
| **Radome Material** | | ABS |
| **Radome Color** | | White ( RAL 9003 ) |

### TEMPERATURE SPECIFICATIONS

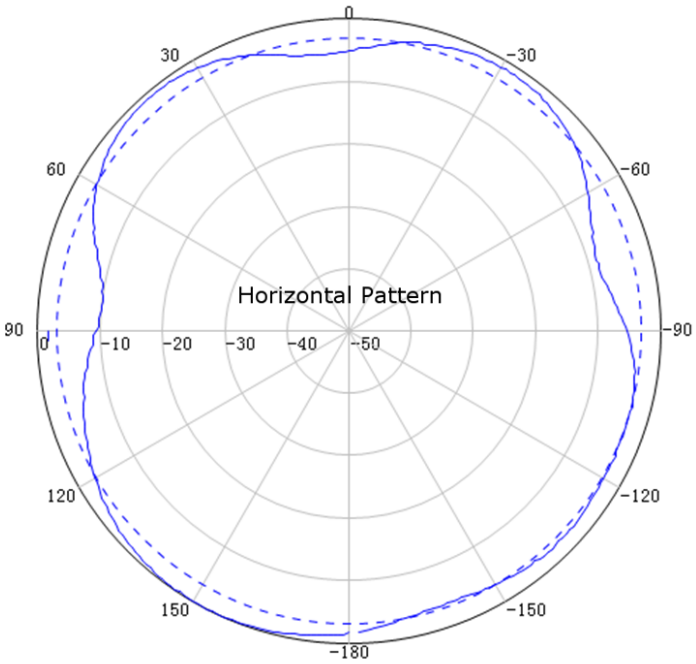
| | | |
|---|---|---|
| **Operation Temperature** | °C (°F) | -40 to 55 (-40 to 131 ) |

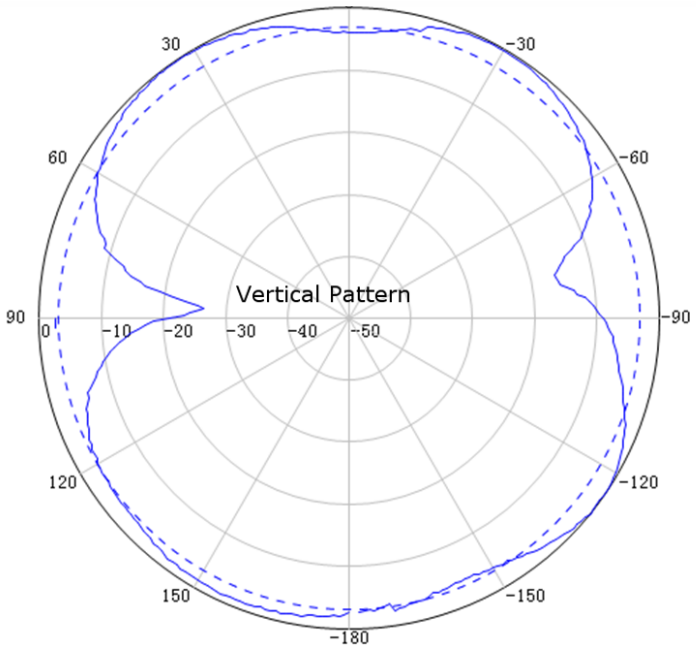


All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

## TESTING AND ENVIRONMENTAL

| | | |
|---|---|---|
| **Environmental Class** | | Indoor |




800 MHz



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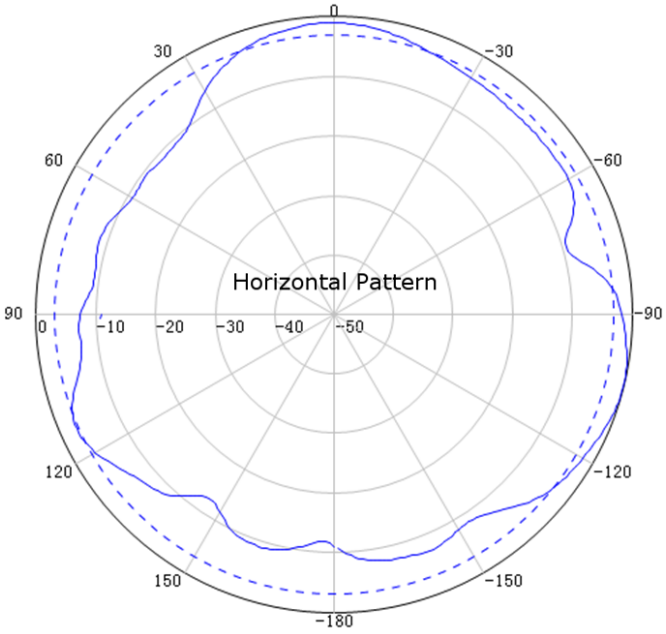
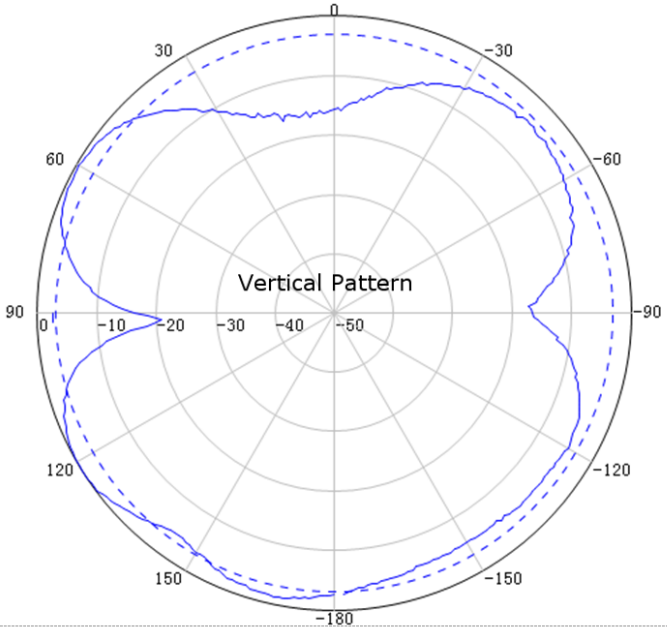
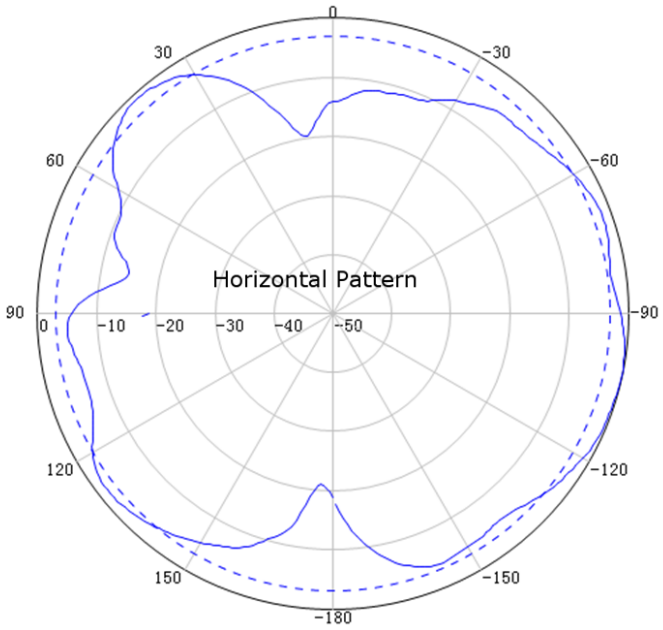
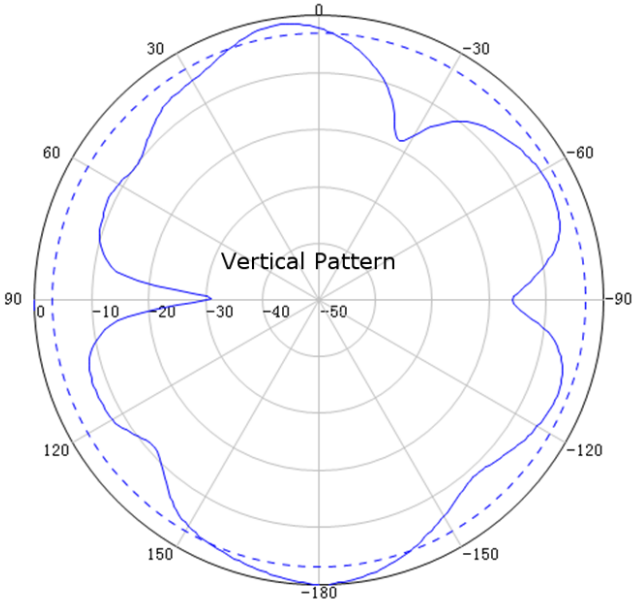



1710 MHz




2500 MHz



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External Document Links

Notes



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