PRODUCT DATASHEET

# I-ATO5-698/2700-02

Indoor Omnidirectional Antenna 698-2700 MHz

This omnidirectional antenna is designed for broadband in-building distribution of modern wireless communication systems as LTE, GSM, CDMA, 3G and WiFi / WLAN services. The antenna ensures highest performance for in-building passive DAS applications avoiding passive intermodulation products due to the PIM optimized design.
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-ATO5-698/2700-02

FEATURES / BENEFITS

- **Wideband omni antenna, supporting all wireless services in the frequency bands 698-960/1710-2700MHz**
- **Typically used in indoor distribution of LTE servives**
- **PIM optimized antenna design (-150dBc @2x20W)**
- **Aesthetical visual appearance, compact and light weight**
- **Low 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** | | 1 | |
| **Connectors** | | N female | |
| **Connector Cable** | mm (in) | 300 (11.81) | |
| **Height (Less Connectors)** | mm (in) | 40 (1.57) | |
| **Diameter (Less Connectors)** | mm (in) | 218 (8.58) | |
| **Weight** | kg (lb) | 0.41 (0.9) | |

### ELECTRICAL SPECIFICATIONS

| | | | |
|---|---|---|---|
| **Frequenz** | MHz | 698-960 | 1710-2700 |
| **Gain, typ.** | dBi | 2.5-4.5 | 4.0-6.5 |
| **VSWR** | | 2.0 | 2.0 |
| **Beamwidth, Vertical, typ.** | ° | 60-90 | 30-65 |
| **Impedance, Ohm** | Ω | 50 | |
| **Polarization** | | Linear | |
| **Intermodulation (IM3)** | | -150 dBc | |
| **Total Input Power max.** | W | 50 | |

### MATERIAL

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

### TEMPERATURE SPECIFICATIONS

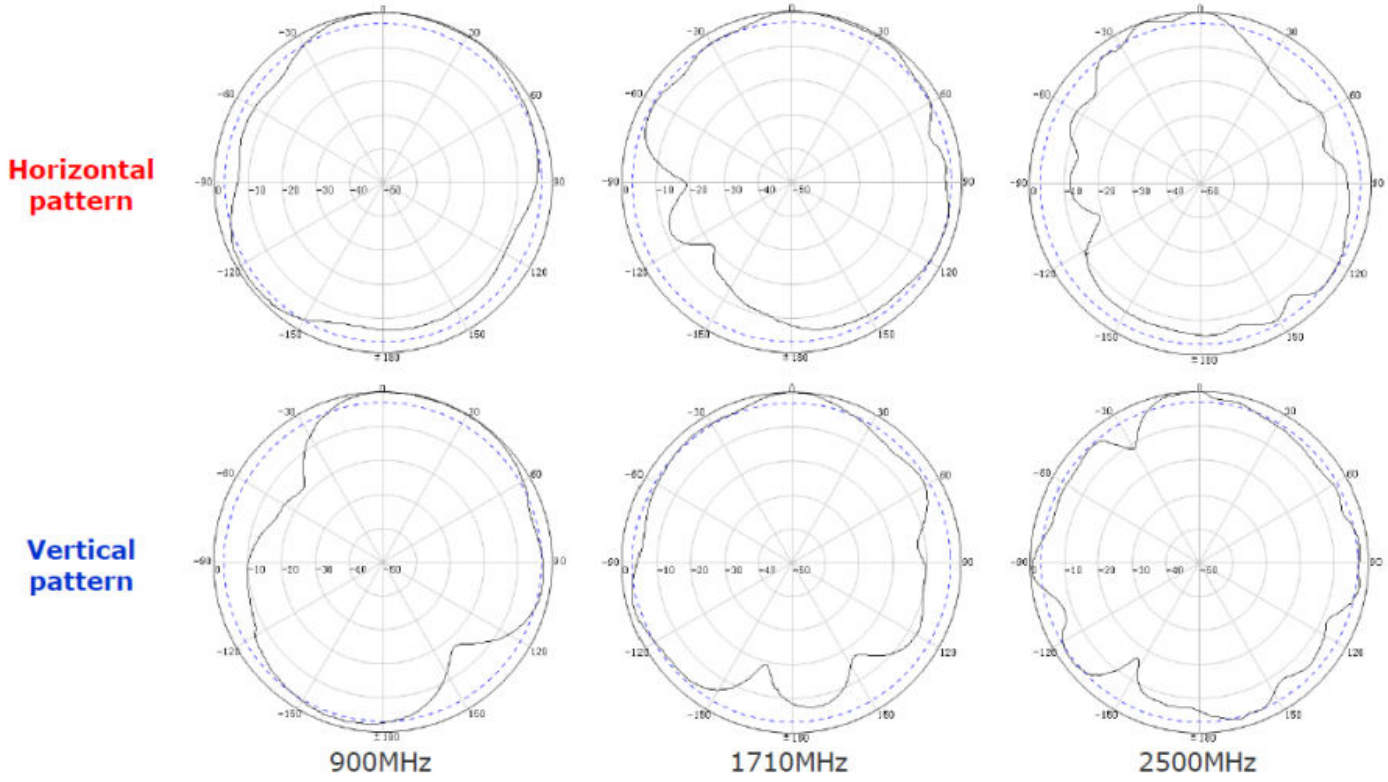
| | | |
|---|---|---|
| **Operation Temperature** | °C (°F) | -55 to 60 (-67 to 140 ) |



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 |




External Document Links

Notes

**Ceiling mounting via hole ( standard )**



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