



The omnidirectional antenna I-ATO5-698/4000 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-ATO5-698/4000

FEATURES / BENEFITS

- **Wideband omnidirectional antenna supporting all wireless services in the frequency bands 698-960 / 1710-2700 / 3400-4000MHz**
- **Typically used in indoor distribution of 2G / 3G / 4G / 5G wireless services in all standardized frequency bands**
- **PIM optimized antenna design (150dBc @2x20W)**
- **Aesthetical visual appearance, compact and light weight**
- **Low loss pigtail with N-female connector**
- **Ideal for 4G LTE multi-band MIMO applications**

Technical features

GENERAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

| | | |
|----------------------------|---------|------------|
| Number of Input Ports | | 2 |
| Connectors | | N female |
| Height (Less Connectors) | mm (in) | 40 (1.57) |
| Diameter (Less Connectors) | mm (in) | 218 (8.58) |
| Weight | kg (lb) | 0.5 (1.1) |

ELECTRICAL SPECIFICATIONS

| Frequency | MHz | 698-960 | 1710-2700 | 3400-4000 |
|---------------------------|-----|-----------|-----------|-----------|
| Gain, typ. | dBi | 3.5 | 4.5 | 5.0 |
| VSWR | | 2.0 | 2.0 | 2.0 |
| Beamwidth, Vertical, typ. | ° | 90 | 45 | 35 |
| Impedance, Ohm | Ω | 50 | | |
| Polarization | | Linear x2 | | |
| Intermodulation (IM3) | | -150 dBc | | |
| Total Input Power max. | W | 50 | | |

MATERIAL

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

TEMPERATURE SPECIFICATIONS

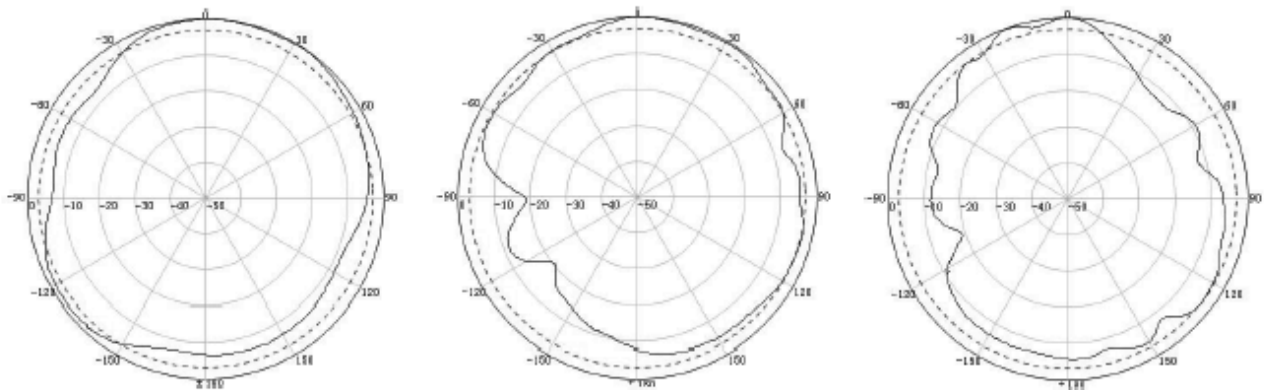
| | | |
|-----------------------|---------|-------------------------|
| Operation Temperature | °C (°F) | -40 to 55 (-40 to 131) |
|-----------------------|---------|-------------------------|

TESTING AND ENVIRONMENTAL

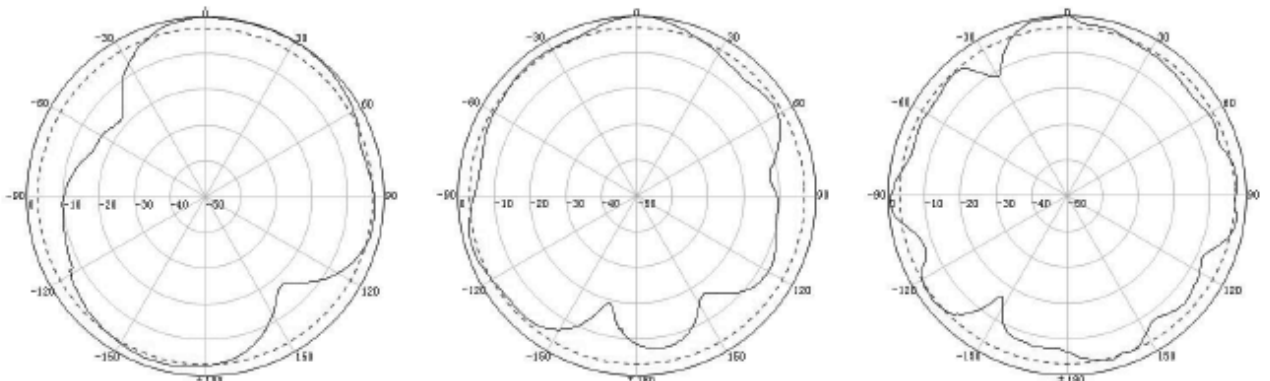
| | | |
|---------------------|--|--------|
| Environmental Class | | Indoor |
|---------------------|--|--------|



Horizontal pattern



Vertical pattern



900MHz

1710MHz

2500MHz

[External Document Links](#)

Notes

Ceiling mounting via hole (standard)

Typical isolation between polarizations: >17dB (698-960MHz), >20dB (1710-2700MHz, 3400-4000MHz)