PRODUCT DATASHEET

I-ATO5-43-698/4000M

Indoor Omnidirectional MIMO Antenna 698-4000 MHz

The omnidirectional antenna I-ATO5-43-698/4000 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-ATO5-43-698/4000

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 4.3-10 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		4.3-10 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

Frequenz	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)		

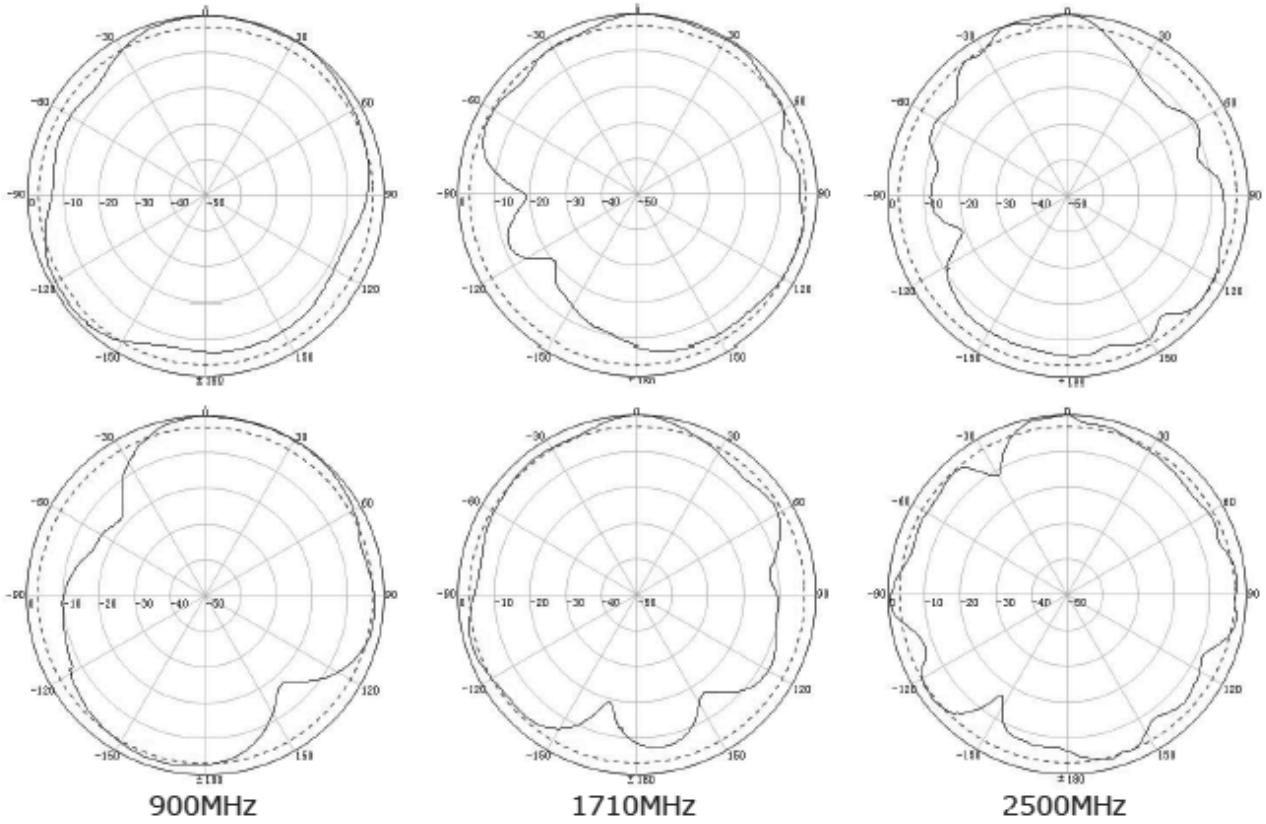
TESTING AND ENVIRONMENTAL

Environmental Class		Indoor		

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

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)

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