PRODUCT DATASHEET

I-ATB5-43-698/2700-01

Bi-directional Antenna 698-2700MHz

The bi-directional antenna I-ATP5-43-698/2700-01 is designed for broadband indoor DAS applications supporting all kind of safety as well as 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-ATB5-43-698/2700-01

FEATURES / BENEFITS

- Wideband antenna, supporting all wireless services in the frequency bands 698-960/1710-2700MHz
- Typically used in indoor distribution of 2G/3G/4G wireless services in all standardized frequency bands
- PIM optimized antenna design (-150dBc @2x20W)
- Aesthetical visual appearance, compact and light weight
- Low return loss, stable performance
- 4.3-10 female connector
- Wall mounting

Technical features

GENERAL SPECIFICATIONS

Product Type		Bi-directional Panel Antenna
Techn. Application		Indoor

MECHANICAL SPECIFICATIONS

Number of Input Ports		1
Connectors		4.3-10 female
Height (Less Connectors)	mm (in)	400 (15.7)
Diameter (Less Connectors)	mm (in)	4.3 ()
Width (Less Connectors)	mm (in)	100 (3.9)
Length (Less Connectors)	mm (in)	200 (7.9)
Weight	kg (lb)	2.3 (5.1)

ELECTRICAL SPECIFICATIONS

Frequency	MHz	698 - 806	806 - 960	1710 - 2170	2170 - 2700
Gain, typ.	dBi	4.0 ± 1.0	4.5 ± 1.0	5.5 ± 1.0	6.0 ± 1.0
max. VSWR		2.0	2.0	2.0	2.0
Beam width, Vertical, typ.	°	75	73	60	50
Beam width, Horizontal, typ.	°	85 ± 20	85 ± 20	62 ± 15	60 ± 20
Impedance, Ohm	Ω	50			
Polarization		Vertical			
Intermodulation (IM3)		-150dBc (2 x 43dBm)			
Total Input Power max.	W	50			

MATERIAL

Radome Material		Fiberglass
Radome Color		White (RAL9003)

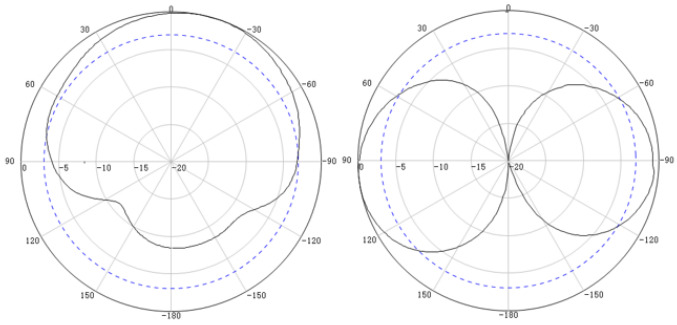
All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

TEMPERATURE SPECIFICATIONS

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

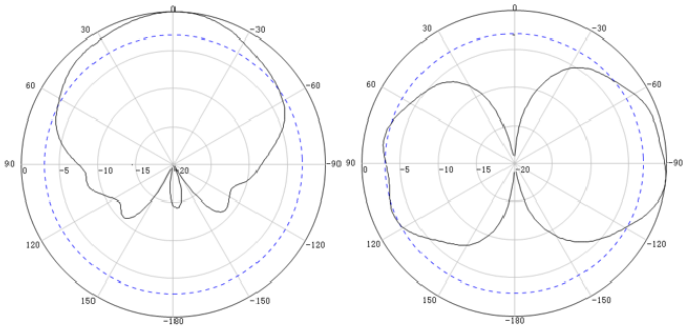
TESTING AND ENVIRONMENTAL

Environmental Class		Indoor



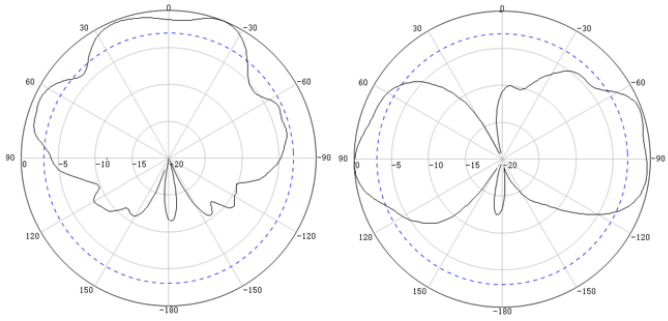
Horizontal Pattern, 880MHz

Vertical Pattern, 880MHz



Horizontal Pattern, 1920MHz

Vertical Pattern, 1920MHz



Horizontal Pattern, 2500MHz

Vertical Pattern, 2500MHz

External Document Links

Notes

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