



CFSA69383P/ CFSA69383P1

**Ultra-low Profile/Low PIM Ceiling Mount Antenna
698-960 MHz/1350-1550 MHz/1690-4000 MHz**

The CFSA69383P/CFSA69383P1 is a Low PIM indoor wideband omnidirectional low-profile ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor coverage requirements at 698-960 MHz and 1690-3800 MHz for the GSM, DCS, UMTS, AWS-3 and LTE/WiMAX frequency bands.

The CFSA69383P/CFSA69383P1 is applicable for environments where aesthetics and wide-angle coverage are necessary for successful wireless deployment. The surprisingly small size and extreme low profile enables maximum mounting flexibility while maintaining desired in-building aesthetics.

FEATURES AND BENEFITS

- Ultra-low profile
- Aesthetically-neutral housing
- Optimized performance using Laird proprietary tools
- Supports AWS-3 frequency band
- Mounts directly and easily to ceiling tile (CFSA69383P1 is for hard ceiling mount installations)

APPLICATIONS

- FirstNet/Public Safety
- Small cells
- Meeting rooms
- Offices
- Hotels
- Museums
- iDAS
- Libraries
- Retails malls
- Bus terminals and train stations
- Other in-building areas

ELECTRICAL SPECIFICATION

| | | | | | | | | | | | |
|------------------------------|-----------------------|---------|---------|-----------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Operating Frequency (MHz) | 698-806 | 824-894 | 880-890 | 1350-1550 | 1690-1880 | 1850-1990 | 1910-2180 | 2300-2500 | 2500-2700 | 3300-3800 | 3800-4000 |
| VSWR - Avg | <1.2:1 | <1.2:1 | <1.2:1 | <1.6:1 | <1.3:1 | <1.3:1 | <1.3:1 | <1.2:1 | <1.2:1 | <1.6:1 | <1.7:1 |
| VSWR - Max | <1.5:1 | <1.5:1 | <1.5:1 | <2.0:1 | <1.5:1 | <1.5:1 | <1.5:1 | <1.5:1 | <1.5:1 | <1.8:1 | <2.0:1 |
| Gain - Typ (dBi) | 3.2 | 2.6 | 3.4 | 4.2 | 4.0 | 4.4 | 4.2 | 4.3 | 5.4 | 2.4 | 3.0 |
| Gain - Max (dBi) | 3.5 | 3.1 | 4.1 | 5.6 | 4.3 | 4.7 | 4.7 | 5.1 | 5.8 | 3.0 | 3.2 |
| PIM - 2x20W - Avg (dBc) | < -159 (LTE low band) | | | | < -157 (LTE high band) | | | < -160 | | | |
| PIM - 2x20W - Max (dBc) | < -150 (LTE low band) | | | | < -150 (LTE high band) | | | < -150 | | | |
| Nominal Impedance (Ohms) | 50 | | | | | | | | | | |
| Max Power - Ambient 25°C (W) | 50 | | | | | | | | | | |
| Polarization | Linear Horizontal | | | | | | | | | | |
| Azimuth 3 dB Beamwidth | 360° | | | | | | | | | | |

MECHANICAL SPECIFICATIONS

| | |
|---|-----------------------|
| Dimensions - height x diameter - mm (in.) | 7.6 x 180 (0.3 x 7.1) |
| Weight - g (lbs.) | 0.23 (0.5) |
| Antenna Color | White |
| Radome Material | PC, UL94-V0 |

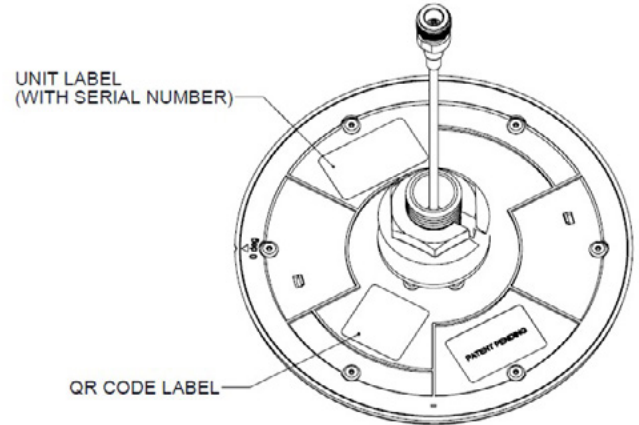
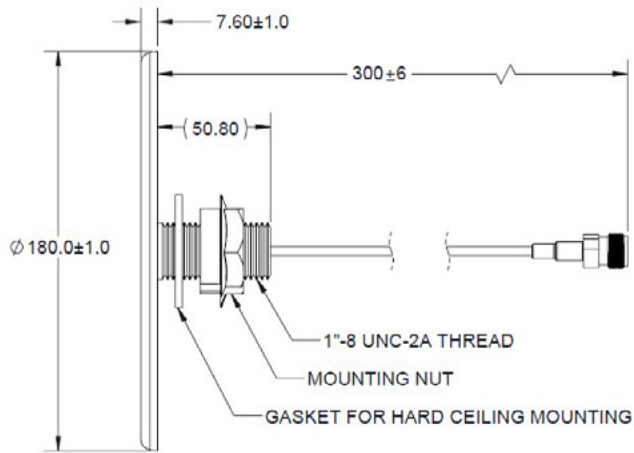
ENVIRONMENTAL SPECIFICATIONS

| | |
|---|--------------------------|
| Operating Environment (Indoor or Outdoor) | Indoor |
| Operating Temperature - C° (F°) | -30 to +70 (-22 to +158) |
| Storage Temperature - C° (F°) | -40 to +85 (-40 to +185) |
| Material Substance Compliance | RoHS |

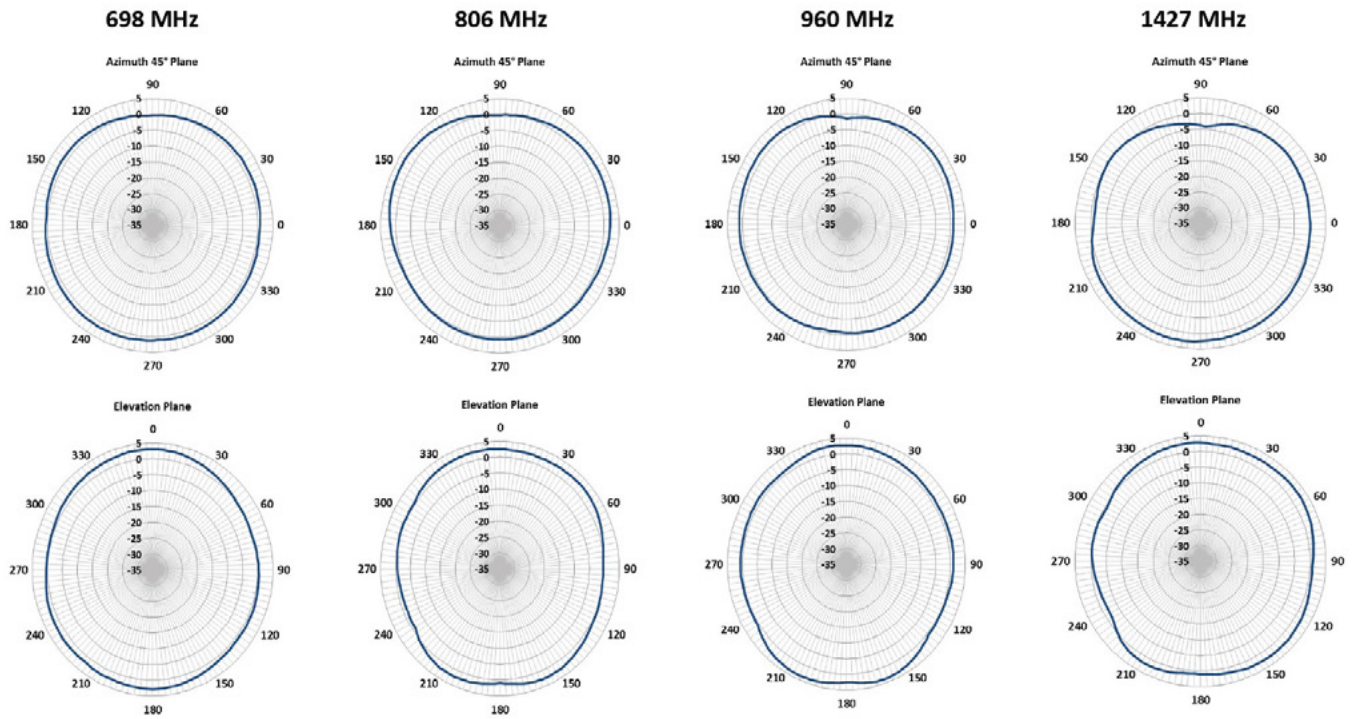
CONFIGURATION

| PART NUMBER | CABLE LENGTH | CONNECTOR | MOUNTING | PACKAGING |
|--------------------|----------------|---------------|--------------|-----------|
| CFSA69383P-30NF | 30 cm (12 in.) | Type N-female | Ceiling tile | Unit |
| CFSA69383P-30D43F | 30 cm (12 in.) | 4.3-10 female | Ceiling tile | Unit |
| CFSA69383P-B30NF | 30 cm (12 in.) | Type N-female | Ceiling tile | Bulk |
| CFSA69383P-B30D43F | 30 cm (12 in.) | 4.3-10 female | Ceiling tile | Bulk |
| CFSA69383P1-30NF | 30 cm (12 in.) | Type N-female | Hard ceiling | Unit |
| CFSA69383P1-30D43F | 30 cm (12 in.) | 4.3-10 female | Hard ceiling | Unit |
| CFSA69383P1-B30NF | 30 cm (12 in.) | Type N-female | Hard ceiling | Bulk |
| CFSA69383P1-B30D3F | 30 cm (12 in.) | 4.3-10 female | Hard ceiling | Bulk |

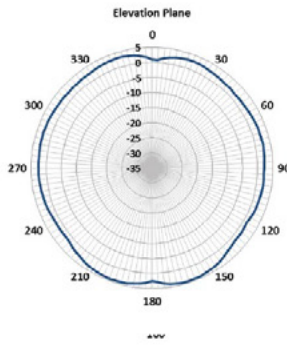
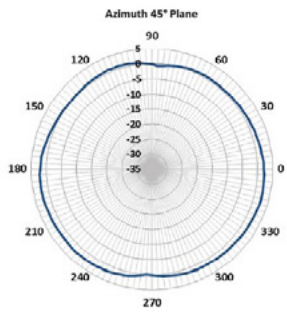
MECHANICAL DRAWING



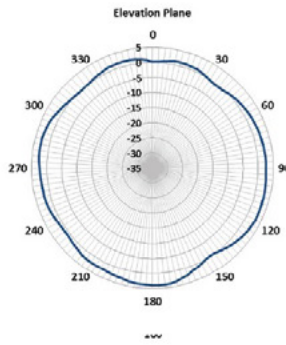
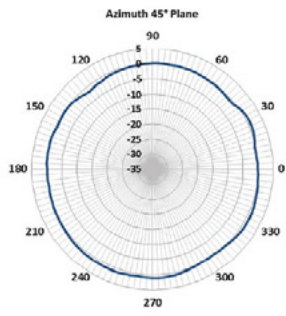
RADIATION PATTERNS



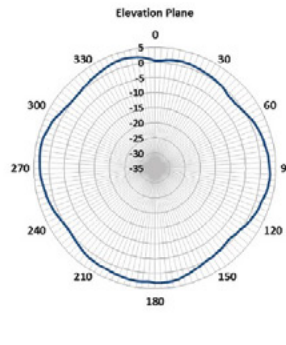
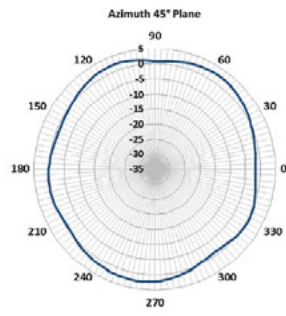
1710 MHz



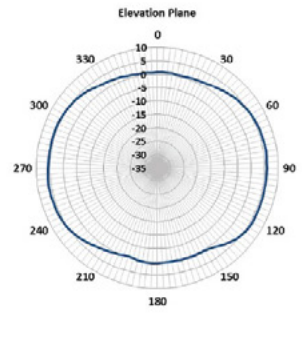
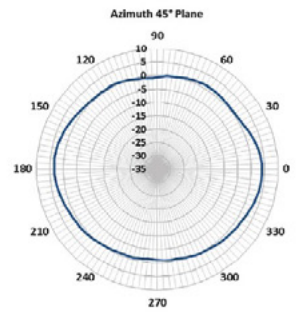
1880 MHz



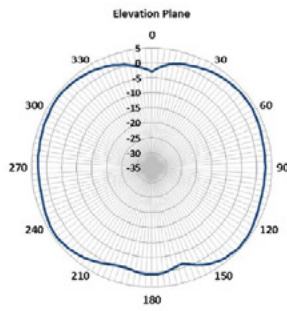
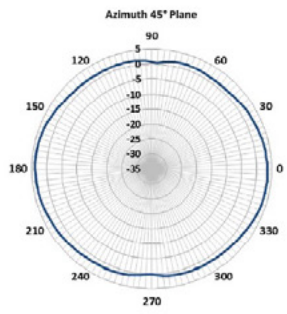
1990 MHz



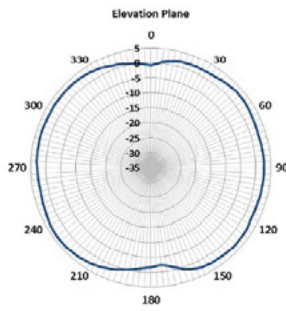
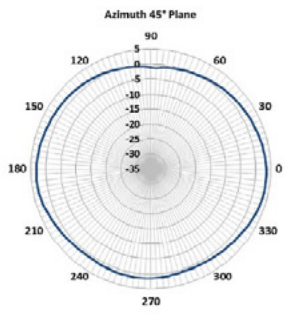
2180 MHz



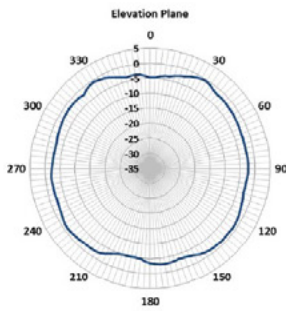
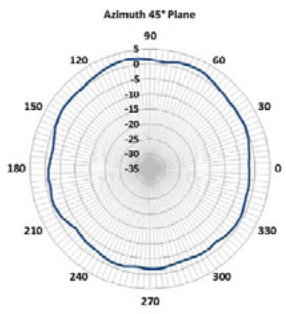
2412 MHz



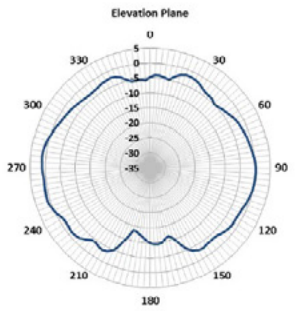
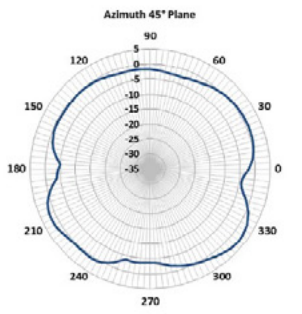
2600 MHz



3500 MHz



4000 MHz



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