



## 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 (CFSA69383P 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           |

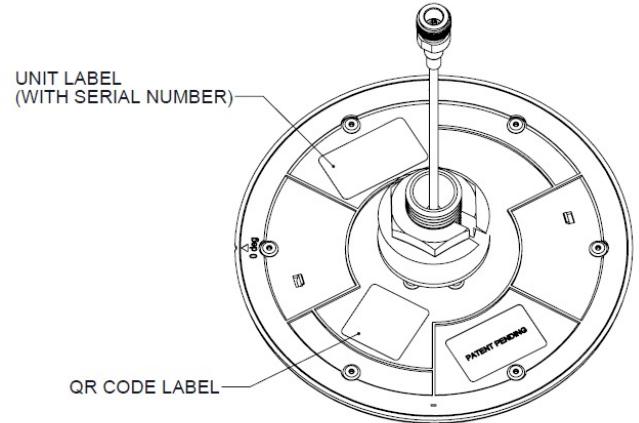
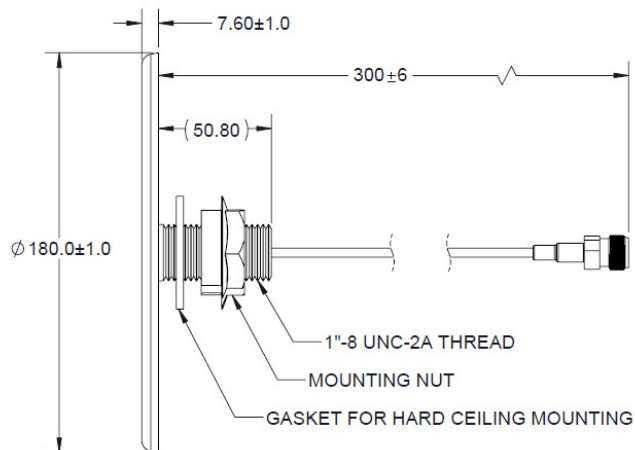
## ENVIRONMENTAL SPECIFICATIONS

|                                           |                          |
|-------------------------------------------|--------------------------|
| 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

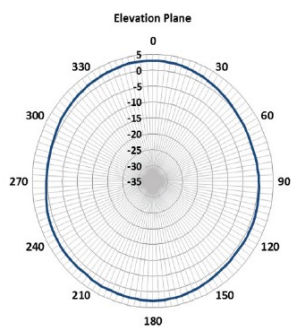
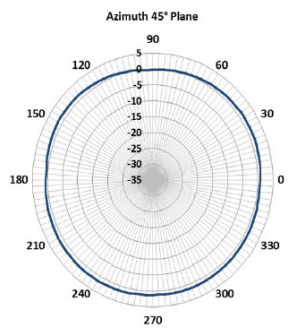
| PART NUMBER        | CABLE LENGTH   | CONNECTOR     | MOUNTING     | PACKAGING |
|--------------------|----------------|---------------|--------------|-----------|
| CFSA69383P-30NF    | 30 cm (12 in.) | Type N-female | Ceiling tile | Unit      |
| CFSA69383P-30D43F  | 30 cm (12 in.) | 4.3-10 female | 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

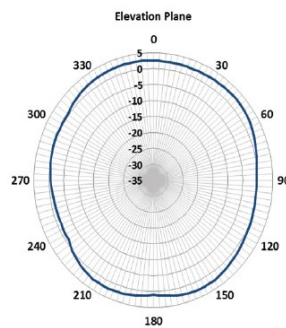
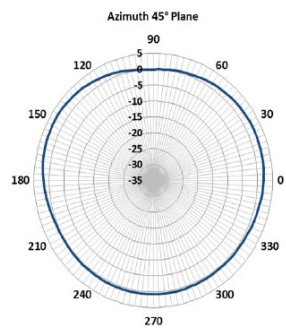


## RADIATION PATTERNS

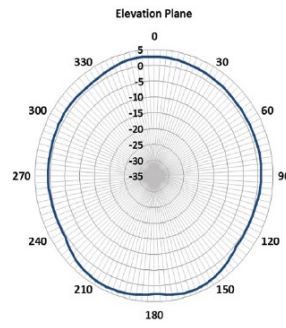
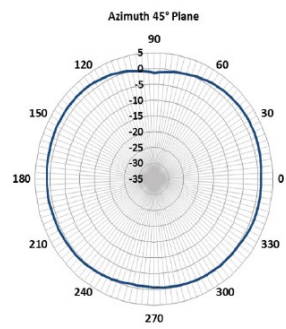
**698 MHz**



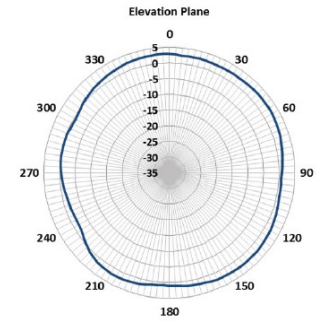
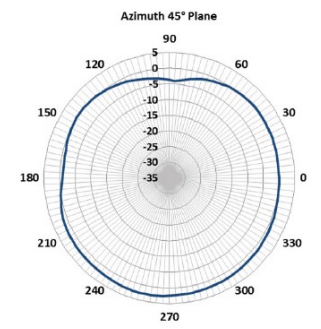
**806 MHz**

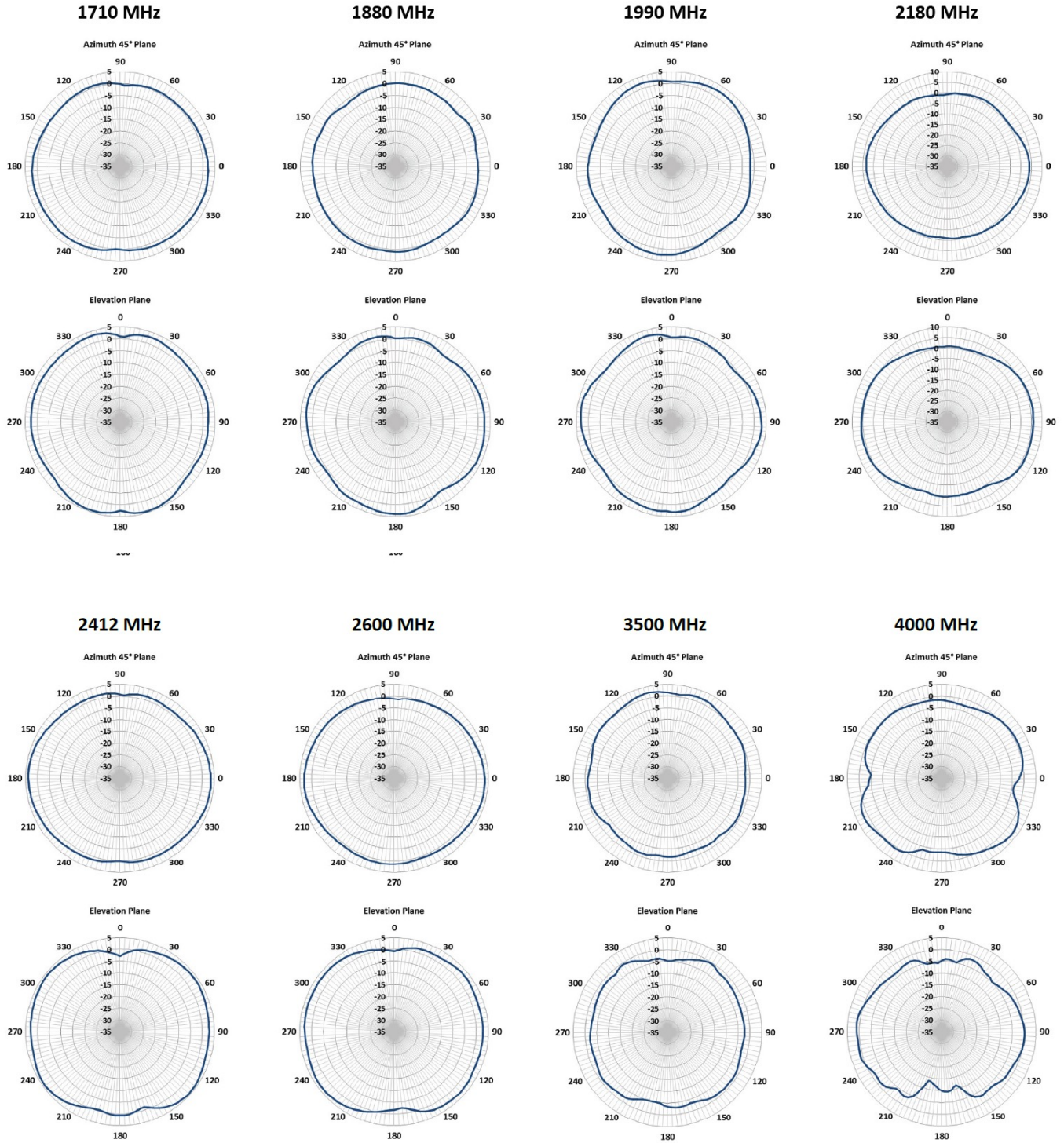


**960 MHz**



**1427 MHz**





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