

# CMS69273P

## 698 to 960 MHz/1710 to 2700 MHz

### Low PIM Ceiling Mount Omnidirectional Antenna



#### LOW PIM MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The CMS69273P is an indoor broadband low PIM omnidirectional ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor requirements at 698-960 MHz and 1710-2700 MHz frequency bands. The antenna features a pattern that has been specifically shaped to provide optimal performance from a ceiling mount location.

#### FEATURES

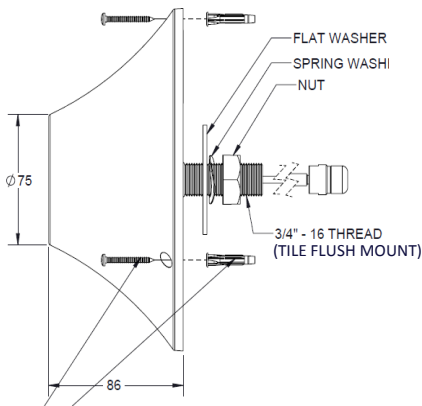
- Low Profile aesthetically neutral housing
- Mounts directly and easily to ceiling tile
- Performance optimized using Laird proprietary RF optimization tools
- Excellent flame retardancy rating
- RoHS compliant

#### MARKETS

- DAS
- In-Building wireless
- Neutral host providers
- Cellular & LTE
- Small cells

#### BENEFITS

- Low PIM performance minimizes interference and improves in-building wireless network coverage and capacity.
- Attractive, compact design and form factor ideal for indoor solution applications.



#6 x 1-1/4" MOUNTING  
SCREWS AND ANCHORS  
(DRYWALL FLUSH MOUNT)

| PARAMETER                        | SPECIFICATION                                              |         |         |           |           |           |           |           |           |
|----------------------------------|------------------------------------------------------------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency Bands, MHz             | 698-806                                                    | 824-894 | 880-960 | 1570-1580 | 1710-1880 | 1850-1990 | 1910-2170 | 2300-2500 | 2500-2700 |
| Peak Gain, dBi (Typ)             | 2.2                                                        | 1.8     | 1.4     | 2.1       | 2.2       | 2.6       | 2.9       | 3.6       | 3.5       |
| Peak Gain, dBi (Max)             | 2.6                                                        | 2.0     | 1.7     | 2.1       | 2.5       | 2.9       | 3.6       | 3.8       | 3.5       |
| VSWR (Typ)                       | <2.0:1                                                     | <1.7:1  | <1.8:1  | <1.8:1    | <1.8:1    | <1.7:1    | <1.7:1    | <1.6:1    | <2.0:1    |
| Maximum VSWR                     | 2.0:1                                                      |         |         |           |           |           |           |           |           |
| PIM, 3rd Order, 2 x 20W (Typ)    | <-152 dBc                                                  |         |         | <-160 dBc |           |           |           |           |           |
| PIM, 3rd Order, 2 x 20W (Max)    | <-150 dBc                                                  |         |         |           |           |           |           |           |           |
| Nominal Impedance                | -50 Ω                                                      |         |         |           |           |           |           |           |           |
| Max Power (Ambient temp of 25°C) | 50 Watts                                                   |         |         |           |           |           |           |           |           |
| Polarization                     | Linear, Vertical                                           |         |         |           |           |           |           |           |           |
| Azimuth Beam Width               | Omnidirectional                                            |         |         |           |           |           |           |           |           |
| Radome                           | PC / ABS, UV stable                                        |         |         |           |           |           |           |           |           |
| Mounting                         | Ceiling mount                                              |         |         |           |           |           |           |           |           |
| Dimensions (diameter x height)   | 199 mm x 86 mm                                             |         |         |           |           |           |           |           |           |
| Weight                           | 0.34 kg                                                    |         |         |           |           |           |           |           |           |
| Storage Temperature (°C)         | -40º C to +85º C                                           |         |         |           |           |           |           |           |           |
| Operational Temperature (°C)     | -30º C to +70º C                                           |         |         |           |           |           |           |           |           |
| Flammability Rating (Radome)     | UL 94V0 Materials                                          |         |         |           |           |           |           |           |           |
| Material Substance Compliance    | RoHS Compliant                                             |         |         |           |           |           |           |           |           |
| Connector / Cable Options        | Model CMS69273P-30NF 30 cm (12”) Type N-Female             |         |         |           |           |           |           |           |           |
|                                  | Model CMS69273P-30D41F 30 cm (12”) 4.1-9.5 Mini DIN Female |         |         |           |           |           |           |           |           |

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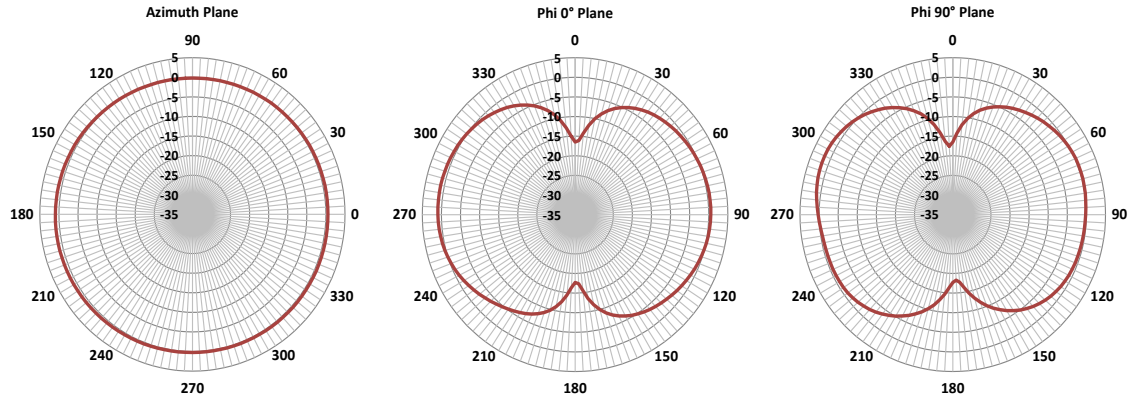
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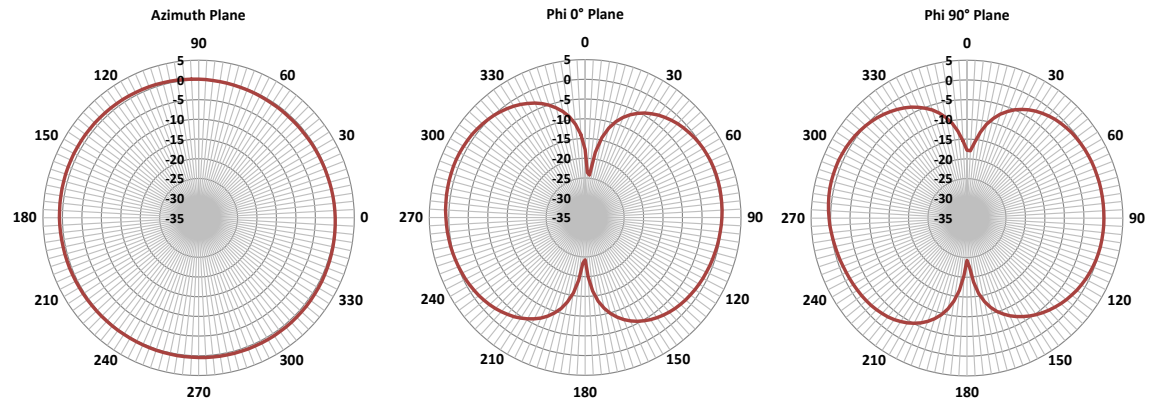
### Low PIM Ceiling Mount Omnidirectional Antenna

#### PATTERNS

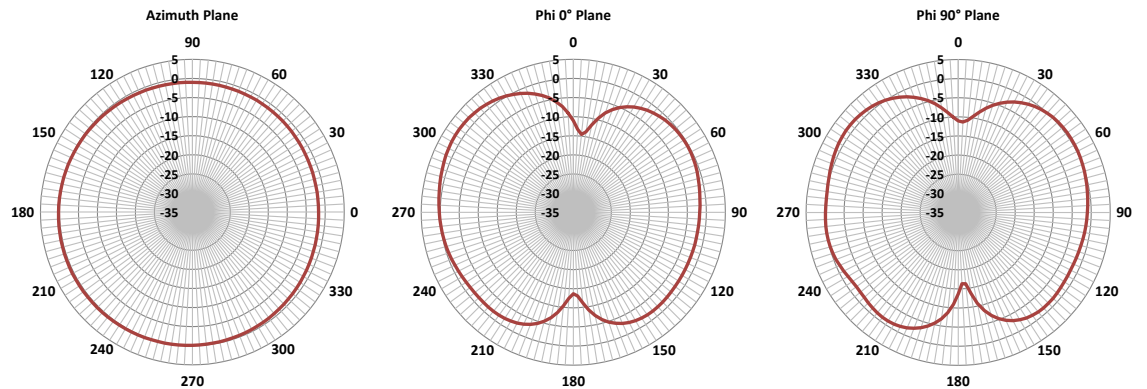
**Radiation Pattern at 698 MHz**



**Radiation Pattern at 960 MHz**



**Radiation Pattern at 1575 MHz**



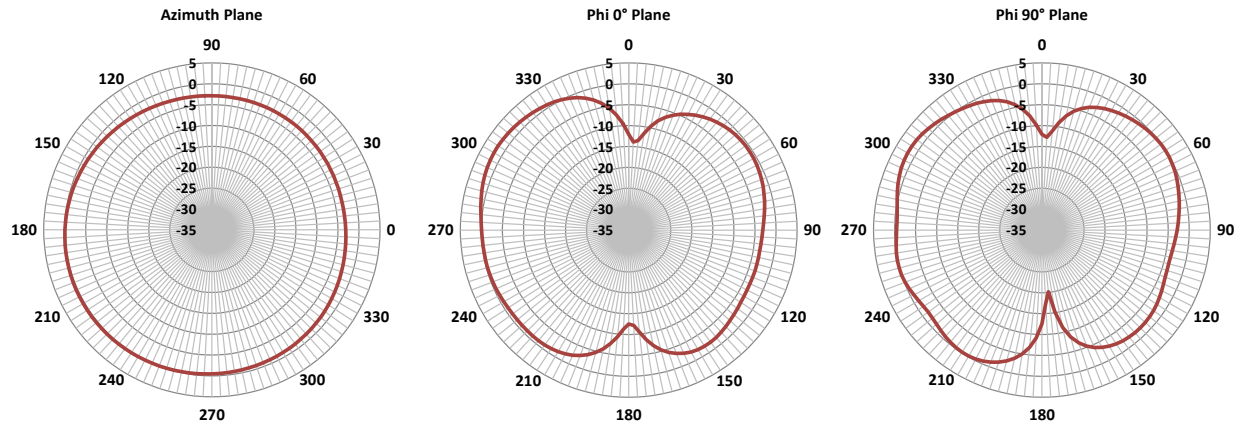
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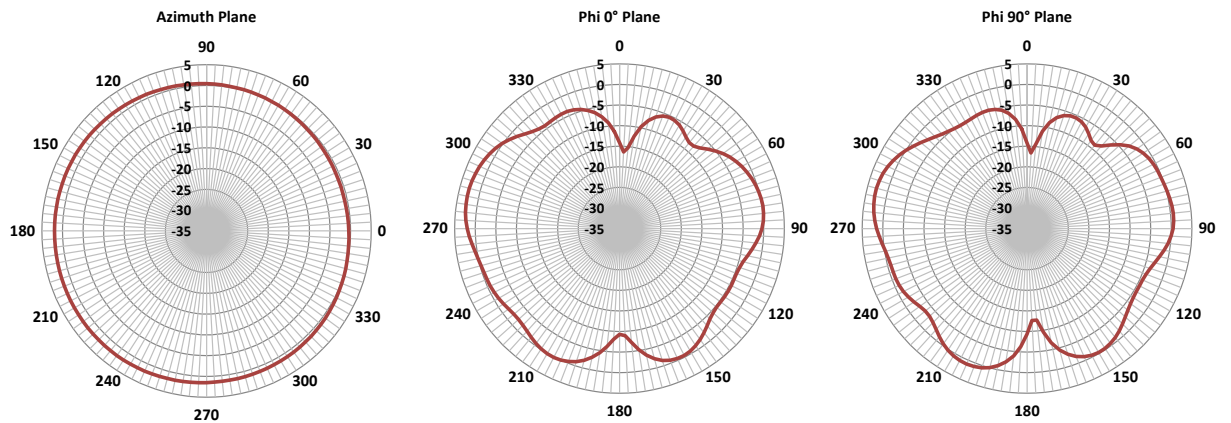
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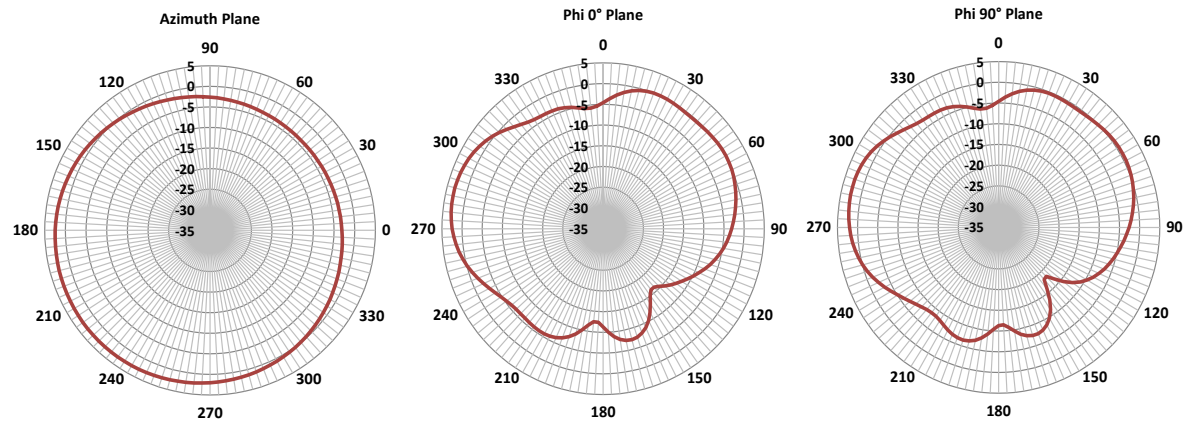
Radiation Pattern at 1710 MHz



Radiation Pattern at 2110 MHz



Radiation Pattern at 2700 MHz



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