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380 to 960 MHz/1395 to 6000 MHz Low PIM Ceiling Mount Omnidirectional Antenna



Patent Pending
CMS38606P-30NF

LOW PIM MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The CMS38606P is an indoor broadband low PIM omnidirectional ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor requirements at 380-520 MHz, 600- 960 MHz, 1395-1435 MHz and 1690-6000 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
- IP67 rated ingress protection and RoHS compliant
- Broadband product with provision for the UHF, 600 MHz, 1390-1432 MHz and AWS-3 bands in a single solution.

MARKETS

- Public Safety 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.
- Compliant with in-building International Fire Code (IFC) & National Fire Protection Association (NFPA) regulations.

| PARAMETER | SPECIFICATIONS | | | | | | |
|-------------------------------|---------------------------------|-----------|---------|-----------|-----------|-----------|-----------|
| Frequency Bands, MHz | 380-520 | 600-806 | 806-960 | 1395-1435 | 1690-2200 | 2200-4300 | 4300-6000 |
| Peak Gain, dBi (Typ) | 2.2 | 2.1 | 2.6 | 5.3 | 5.7 | 5.8 | 5.4 |
| Peak Gain, dBi (Max) | 3.1 | 2.7 | 2.9 | 5.4 | 6.1 | 7.0 | 6.1 |
| VSWR (Typ) | <2.8:1 | <1.7:1 | <1.9:1 | <1.4:1 | <1.6:1 | <1.9:1 | <1.6:1 |
| VSWR (Max) | <3.0:1 | <2.0:1 | <2.0:1 | <2.0:1 | <2.0:1 | <2.0:1 | <2.0:1 |
| PIM, 3rd Order, 2 x 20W (Typ) | <-154 dBc | <-154 dBc | NA | | | <-152 dBc | |
| PIM, 3rd Order, 2 x 20W (Max) | <-150 dBc | <-150 dBc | NA | | | <-150 dBc | |
| Nominal Impedance | 50 Ω | | | | | | |
| Polarization | Vertical | | | | | | |
| Azimuth Beam Width | 360°, Omnidirectional | | | | | | |
| Max Power (Ambient 25°C/77°F) | 50 Watts | | | | | | |
| Antenna Dimension (Ht x Dia) | 133 x 298 mm (5.23" x 11.7") | | | | | | |
| Weight | 0.8 kg (1.76 lbs) | | | | | | |
| Antenna Color | White | | | | | | |
| Radome | PC, UV Stable, UL94-V0 Material | | | | | | |
| Operating Temperature (°C) | -30° C to +70° C | | | | | | |
| Storage Temperature (°C) | -40° C to +85° C | | | | | | |
| Ingress Protection | IP67 | | | | | | |
| RoHS Compliance | Yes | | | | | | |

| PART NUMBER | CABLE LENGTH | CONNECTOR |
|------------------|--------------|---------------|
| CMS38606P-30NF | 30 cm (12") | Type N Female |
| CMS38606P-30D43F | 30 cm (12") | 4.3-10 Female |

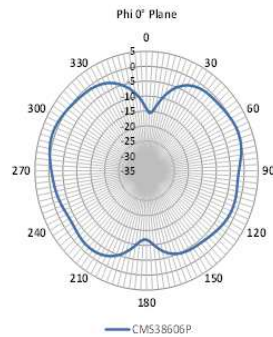
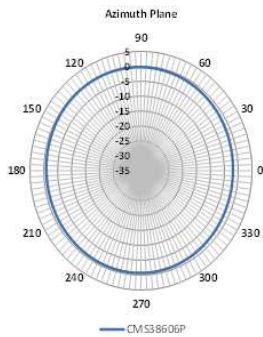
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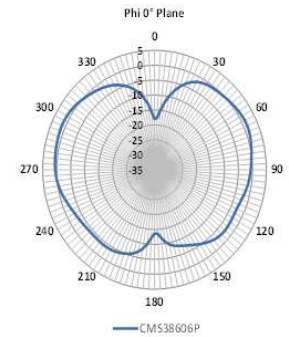
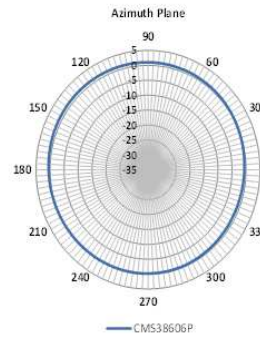


RADIATION PATTERNS

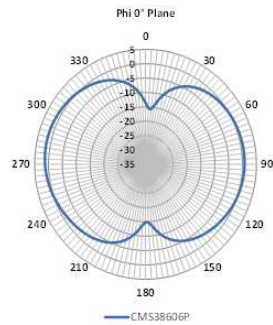
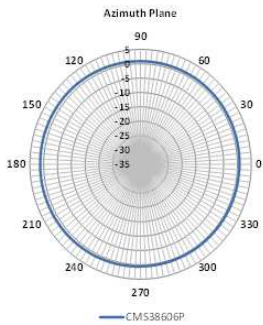
400 MHz



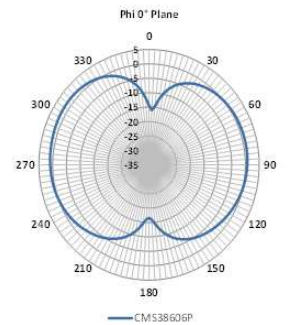
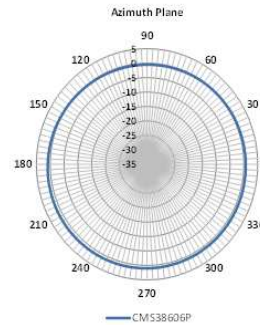
520 MHz



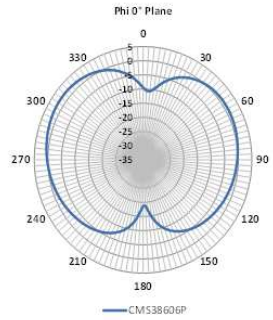
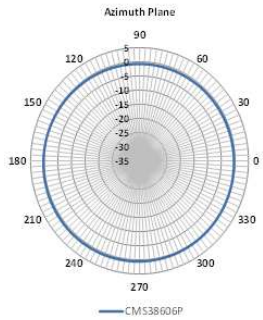
600 MHz



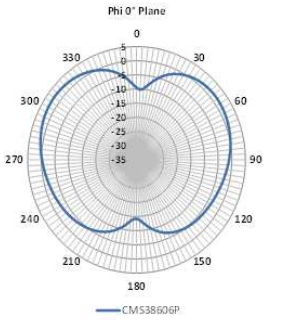
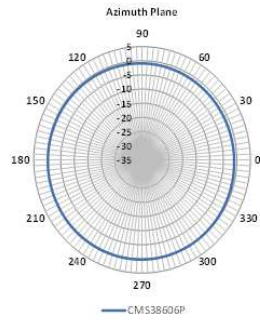
698 MHz



850 MHz

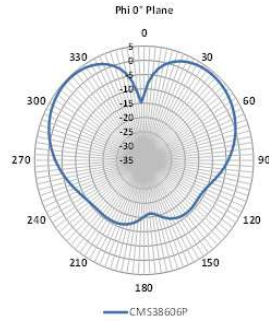
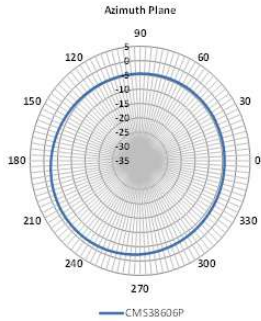


960 MHz

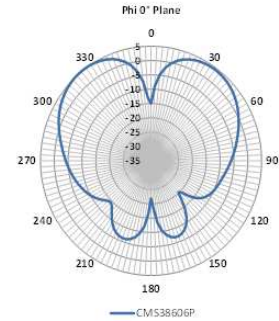
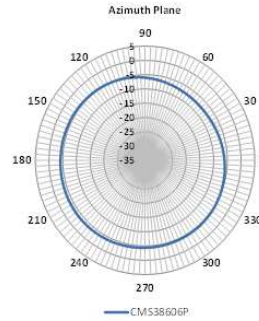


RADIATION PATTERNS

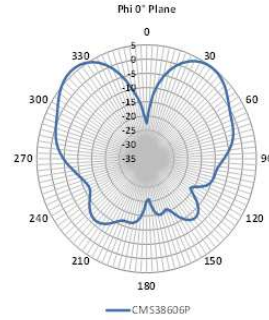
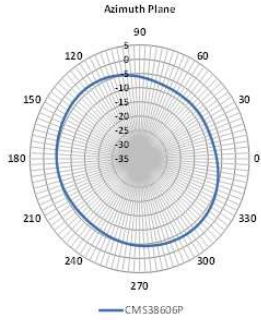
1395 MHz



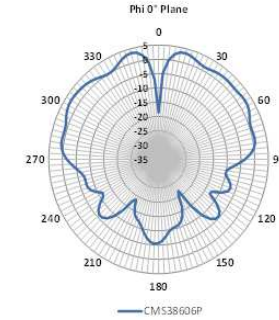
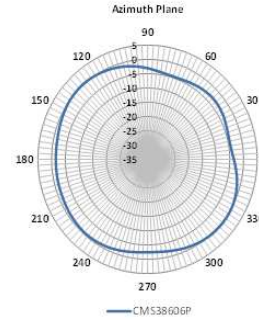
1690 MHz



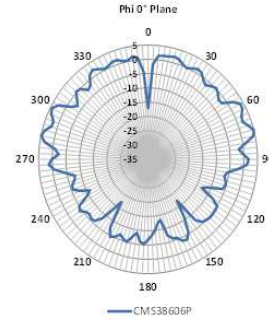
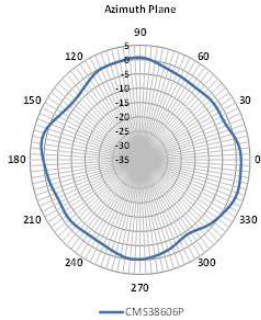
2700 MHz



4300 MHz



5950 MHz



ANT-DS-CMS38606P 0617

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