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CMS38606P

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 RoHS

- 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 ingression 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						
Cable Length/Connector	30 cm (12") Type N-female						
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						
Ingression Protection	IP67						
RoHS Compliance	Yes						

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Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

5 YEAR WARRANTY

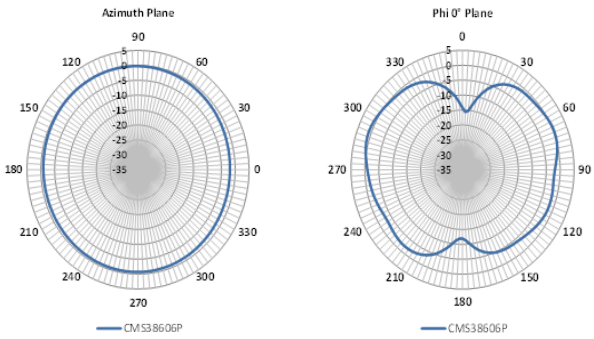
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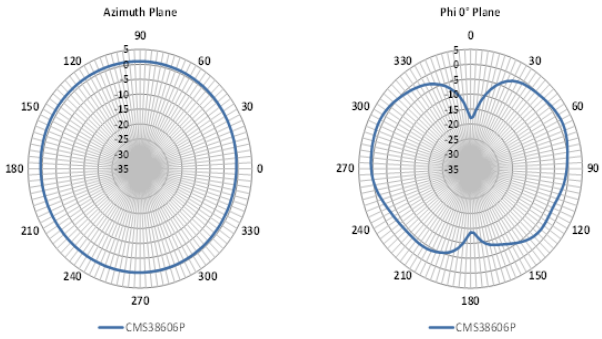
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RADIATION PATTERNS

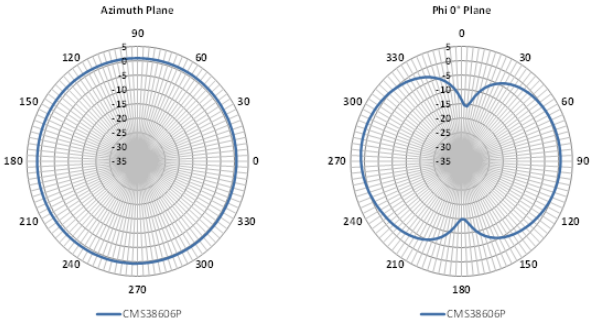
400 MHz



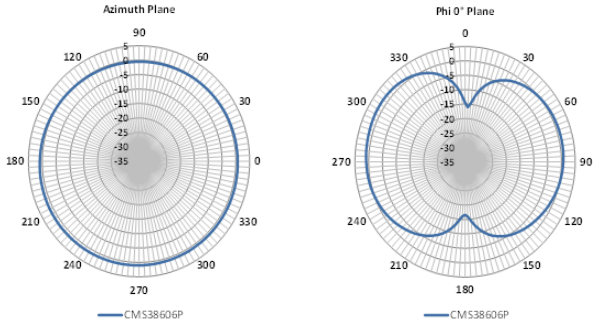
520 MHz



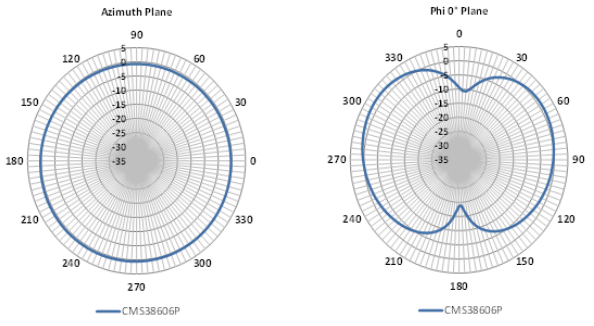
600 MHz



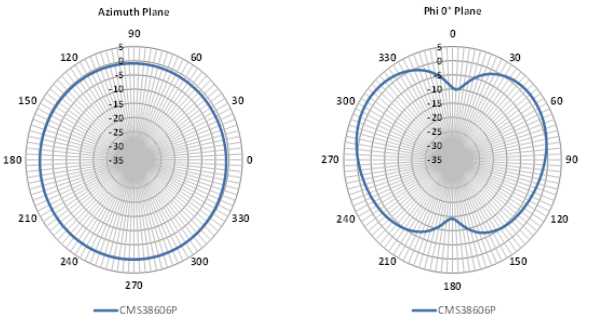
698 MHz



850 MHz



960 MHz



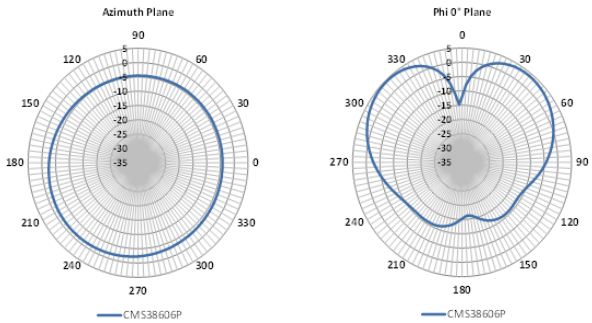
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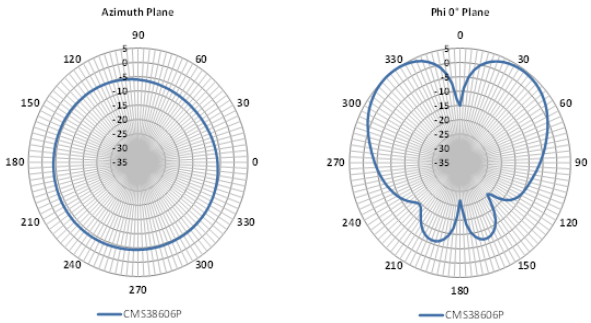
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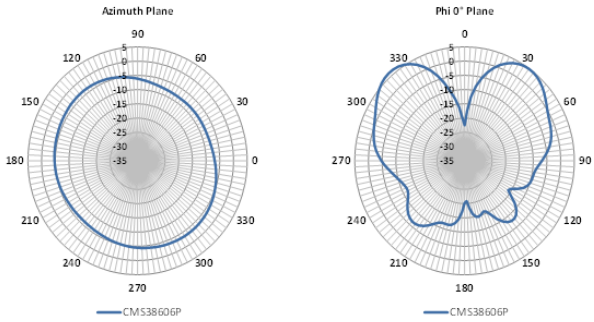
1395 MHz



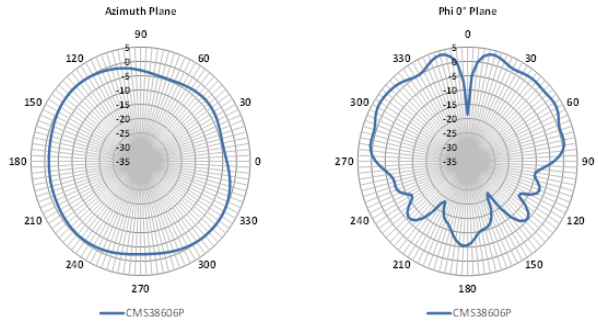
1690 MHz



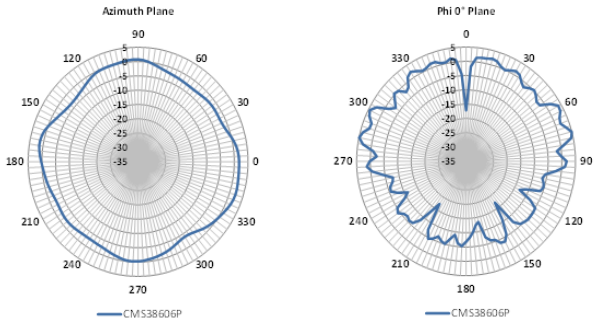
2700 MHz



4300 MHz



5950 MHz



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