

698 to 960 MHz/1710 to 2700 MHz 2-port MIMO Ceiling Mount Antenna



2-PORT MIMO MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The CMD69273 is an indoor broadband 2-port MIMO 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 for the CELLULAR, UMTS, and LTE/WiMAX frequency bands. The individual antenna elements are designed with linear H/V-polarization components oriented to provide 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
- Wide bandwidth 700/850/900/1800/1900/UMTS/2300/2400/2500
- Two radiating elements optimized for indoor MIMO Applications
- Low cross correlation between radiating elements
- Conformance to RoHS

MARKETS

- Cellular
- LTE/WiMAX
- 802.11 a/b/g/n
- Warehouse, Offices and Meeting Rooms
- Hotels, Museums, Libraries, Retail Malls
- Airport, Bus Terminals and Train Stations
- Other in-building areas

BENEFITS

- Complete cellular and 3G/4G data communications in a single antenna
- Radiating elements are oriented to provide maximal coverage
- To mitigate the multipath polarization propagation issue, each radiating element is designed to have dual-linear H/V polarization characteristics

| | CMD69273 |
|-------------------------------|---|
| Frequency | 698-960 MHz / 1710-2700 MHz |
| Peak Gain | 3.35 dBi @ 700 MHz Band, 4.4 dBi @ 800 / 900 MHz Band 5.0 dBi @ 1800/1900/UMTS MHz Band, 5.6 dBi @ 2400/ 2500 MHz Band |
| Average Efficiency | 93% @ 700 MHz Band, 89% @ 800 / 900 MHz Band 85% @ 1800/1900/UMTS MHz Band, 85% @ 2400/ 2500 MHz Band |
| VSWR | 2.0:1 maximum across all bands |
| Nominal Impedance | 50 ohms |
| Polarization | Linear H/V for each radiator |
| Max Input Power | 25 watts |
| RF Connector | Dual Type N Male (Plug) |
| Cable | Dual 305 mm, Plenum rated |
| Enclosure | PC/ABS, UV stable |
| Antenna Weight | 0.41 kg |
| Mounting | Ceiling Mount (flush mount with screws and anchors) |
| Operational Temperature | -30°C to +70°C |
| Storage Temperature | -40°C to +85°C |
| Material Substance Compliance | RoHS 6/6 |
| Flammability Rating (Radome) | UL 94V0 Materials |
| Dimensions | Diameter 218.7 mm x Height 43.5 mm |

global solutions: local support™

Americas: +1.847.839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12
IAS-EUSales@lairdtech.com

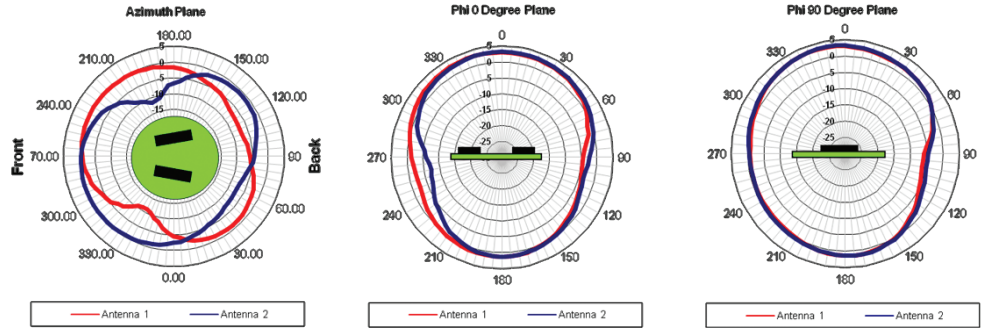
Asia: +1.65.6.243.8022
IAS-AsiaSales@lairdtech.com

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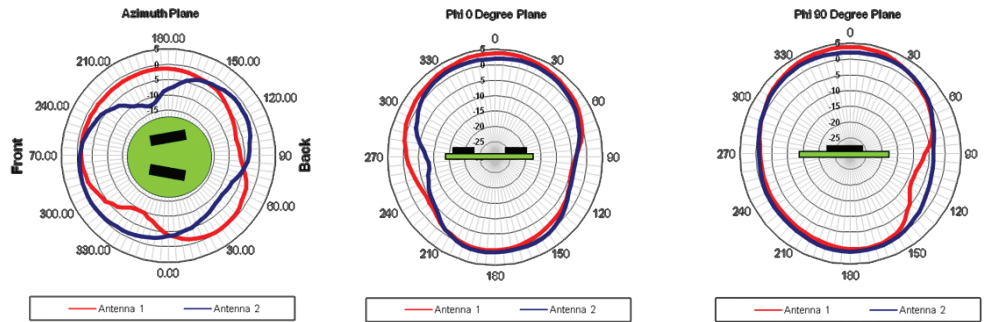
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PATTERNS

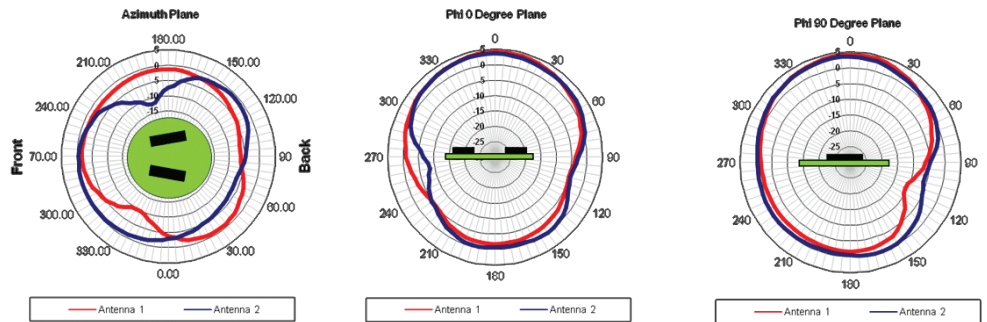
750 MHz Radiation Pattern



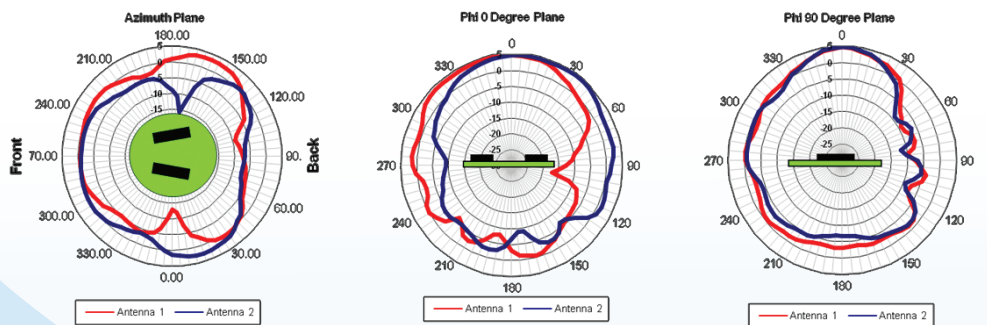
869 MHz Radiation Pattern



915 MHz Radiation Pattern



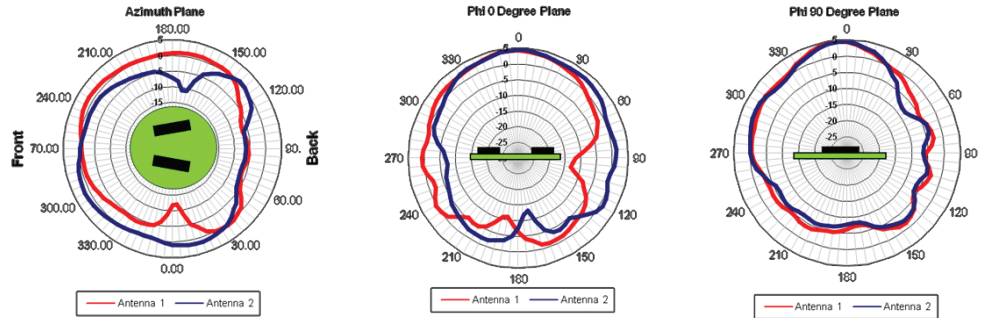
1780 MHz Radiation Pattern



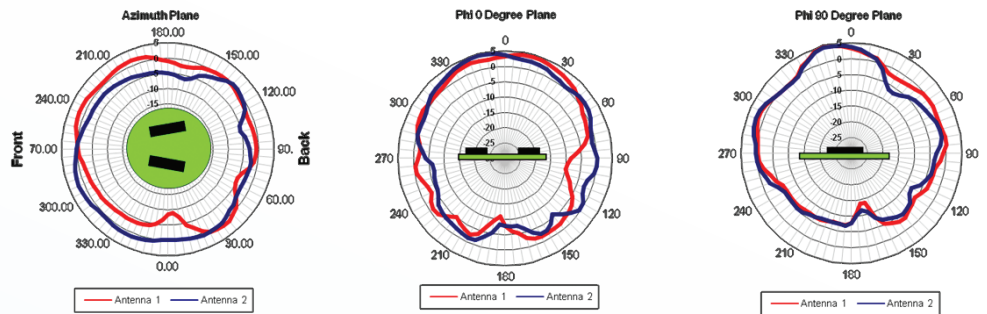
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PATTERNS

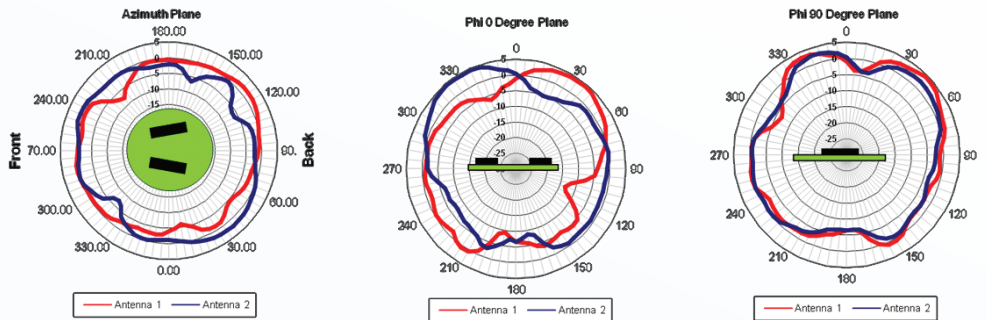
1910 MHz Radiation Pattern



2110 MHz Radiation Pattern



2600 MHz Radiation Pattern



ANT-DS-CMD69273 0811

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