

# CMD69273P

## 698-960 MHz/1710-2700 MHz

### Low PIM 2-port MIMO Ceiling Mount Antenna

#### LOW PIM 2-PORT MIMO MULTI-BAND CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The CMD69273P is an indoor broadband low PIM 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 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 700/850/900/1800/1900/2100/2300/2400/2500/2600
- Two radiating elements optimized for indoor MIMO Applications
- Low cross correlation between radiating elements
- Low Passive Intermodulation
- Conformance to RoHS

- To mitigate the multipath polarization propagation issue, each radiating element is designed to have dual-linear H/V polarization characteristics

#### 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

CMD69273P		
Frequency	698-960 MHz/1710-2700 MHz	
Peak Gain	3.1 (typical), 3.9 (max) @ 700 Band 3.1 (typical), 3.8 (max) @ 800 Band 2.8 (typical), 3.5 (max) @ 900 Band 5.9 (typical), 6.8 (max) @ 1800 Band 4.5 (typical), 5.1 (max) @ 1900 Band 4.3 (typical), 4.7 (max) @ 2100 Band 5.9 (typical), 6.3 (max) @ 2300 Band 6.9 (typical), 7.4 (max) @ 2600 Band	
Nominal Impedance	50 $\Omega$	
VSWR	Max 2.0:1	
Polarization	Linear H/V for each radiator	
Azimuth Beam Width (deg)	Omni directional	
PIM, 3rd Order, 2 x 20 W	< -150 dBc	
Max Power (Ambient temp of 25°C)	50 Watts	
Isolation	< -17dB @ 698-960MHz < -20dB @ 1710-2700MHz	
Radome	PC/ABS, UV Stable	
Mounting	Ceiling Mount (flush mount with screws and anchors)	
Dimensions (diameter x height)	218.7 mm x 43.5 mm	
Weight	0.41kg	
Storage Temperature Range (°C)	-40°C to +85°C	
Operational Temperature Range (°C)	-30°C to +70°C	
Flammability Rating (Radome)	UL 94V0 Materials	
Material Substance Compliance	RoHS Compliant	
MODEL NUMBER	CABLE LENGTH*	CONNECTOR
CMD69273P-FNF	NA (Direct Connect)	Dual Type N-Female
CMD69273P-30NF	Dual 30cm (12")	Dual Type N-Female
CMD69273P-46NF	Dual 46cm (18")	Dual Type N-Female

\*Semi flexible 402 coaxial cable, Plenum Rated

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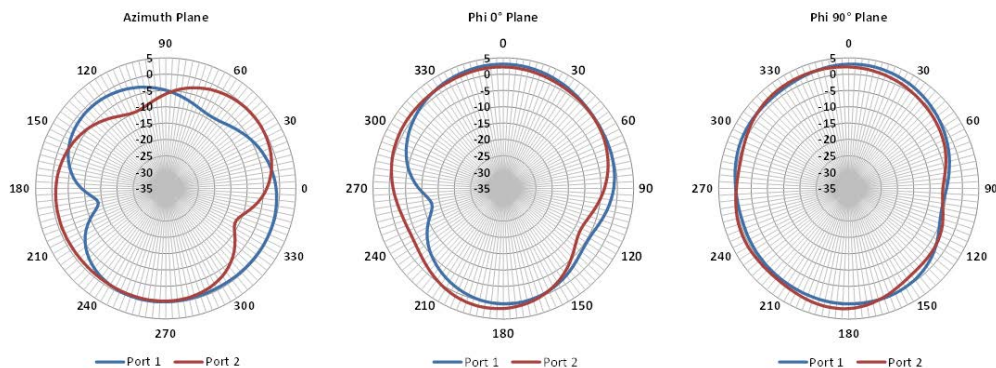
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## 698-960 MHz/1710-2700 MHz

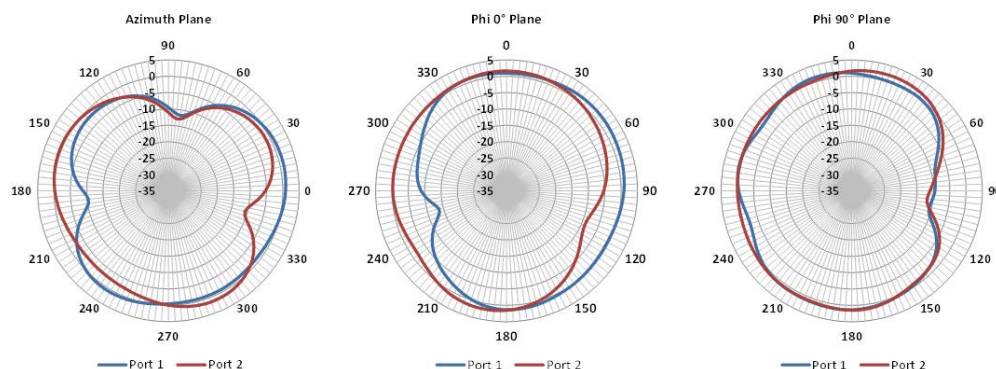
### Low PIM 2-port MIMO Ceiling Mount Antenna

#### PATTERNS

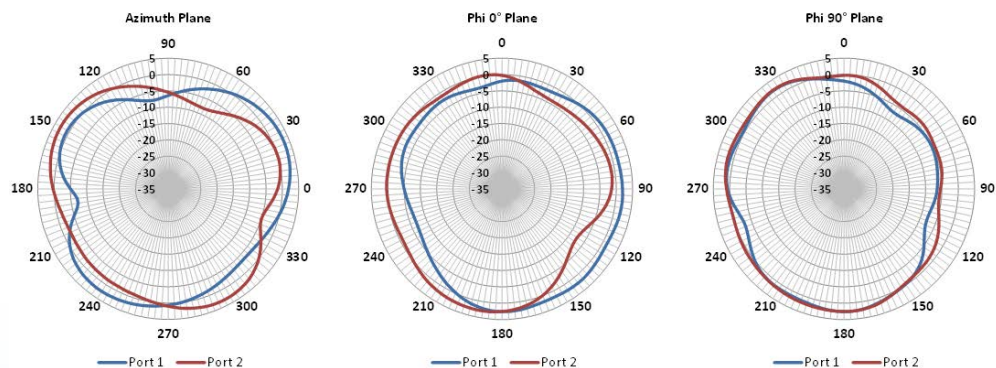
698 MHz Radiation Pattern



880 MHz Radiation Pattern



960 MHz Radiation Pattern



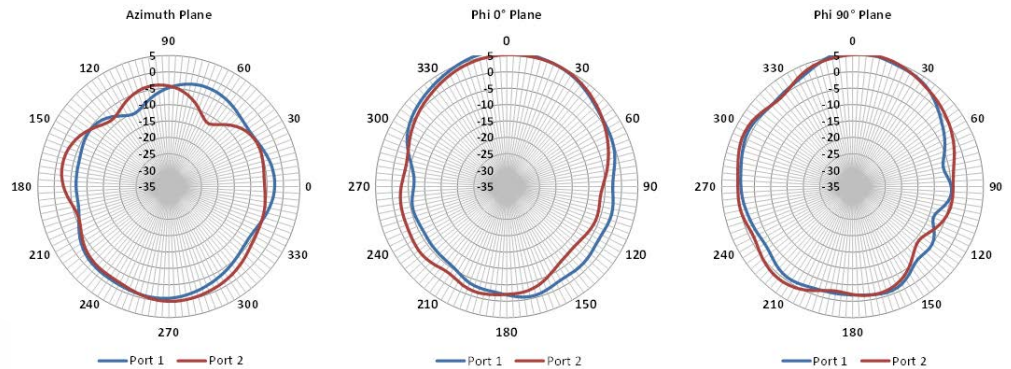
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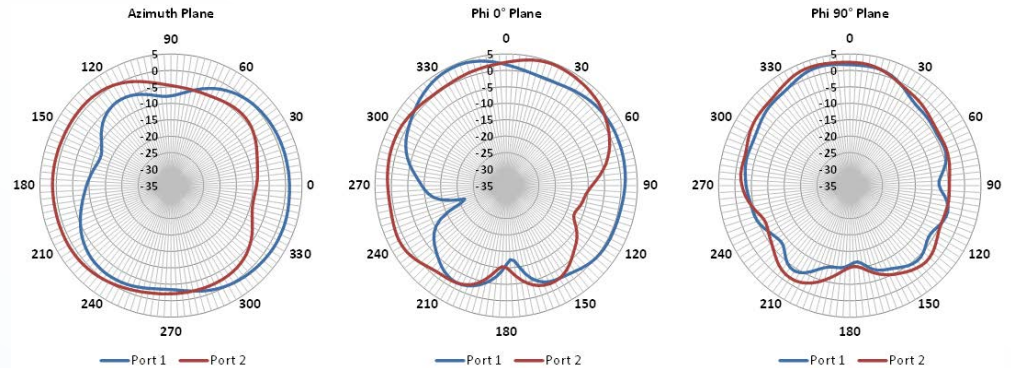
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#### PATTERNS

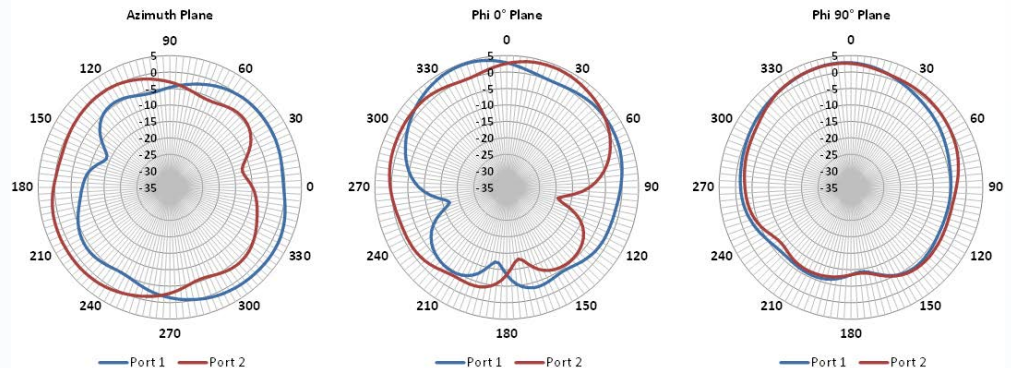
1710 MHz Radiation Pattern



1950 MHz Radiation Pattern



2170 MHz Radiation Pattern



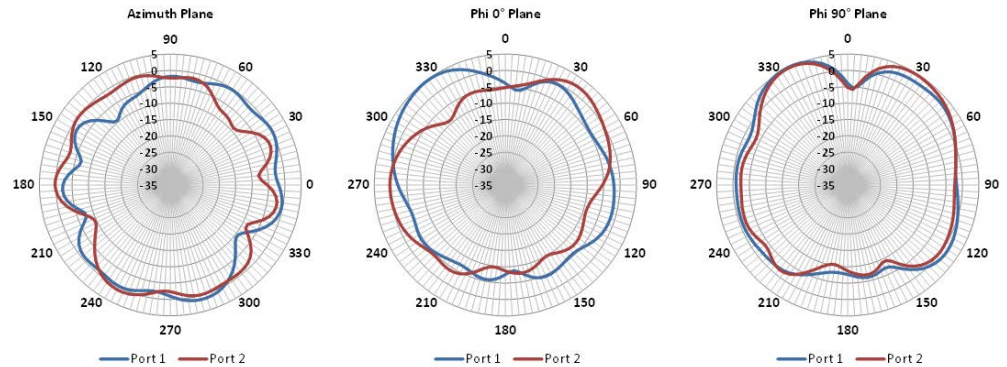
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#### PATTERNS

##### 2700 MHz Radiation Pattern



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