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**698-960MHz/1710-2700MHz  
Low PIM 2-port MIMO Ceiling Mount Antenna**



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

The CMD69273P utilizing Patent Pending Technology is an indoor broadband low PIM 2-port MIMO omnidirectional ceiling mount antenna. It is designed to provide pattern coverage optimized for indoor requirements at 698-960MHz and 1710-2700MHz frequency bands. The individual antenna elements are designed with linear H/V-polarization components oriented to radiate a pattern that has been specifically shaped to deliver 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
- Low Passive Intermodulation
- Conformance to RoHS
- Antenna w/cables Plenum rated

**MARKETS**

- Cellular
- LTE/WiMAX
- 802.11 a/b/g/n
- Warehouse, Office 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 maximum coverage
- To mitigate the multi path polarization propagation issue, each radiating element is designed to have dual-linear H/V polarization characteristics
- Full Plenum rating allows for above ceiling installations.

PARAMETER	SPECIFICATIONS							
Frequency Bands, MHz	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
Peak Gain, dBi (Typ)	3.1	3.1	2.8	5.9	4.5	4.3	5.9	6.9
Peak Gain, dBi (Max)	3.9	3.8	3.5	6.8	5.1	4.7	6.3	7.4
VSWR (Typ)	<1.7:1	<1.7:1	<1.7:1	<1.8:1	<1.7:1	<1.7:1	<1.5:1	<1.5:1
Isolation, dB (Typ)	<-20	<-22	<-18	<-26	<-25	<-22	<-20	<-20
PIM, 3 <sup>rd</sup> Order, 2 x20W (Typ)	<-154 dBc			<-155 dBc				
PIM, 3 <sup>rd</sup> Order, 2 x20W (Max)	<-150 dBc							
Maximum VSWR	2.0:1							
Nominal Impedance	-50 Ω							
Max Power (Ambient temp of 25°C)	50 Watts							
Polarization	Linear H/V for each Radiator							
Azimuth Beam Width	Omnidirectional							
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	0.41 kg							
Storage Temperature (°C)	-40° C to +85° C							
Operational Temperature (°C)	-30° C to +70° C							
Standard for Safety: Information Technology Equipment	UL/CSA/EN/IEC/CB-Scheme 60950-1 Listed							
Standard for Safety: Fire and Smoke (Plenum)*	UL 2043 Certified							
Flammability Rating (Radome)	UL94V0 Materials							
Material Substance Compliance	RoHS Compliant							

\*Antenna, with cables, fully Plenum compliant.

**CONNECTORS**

MODEL NUMBER	CABLE LENGTH*	CONNECTOR
CMD69273P-FNF	NA (Direct Connect)	Dual Type N-Female
CMD69273P-30NF	Dual 30 cm (12")	Dual Type N-Female
CMD69273P-46NF	Dual 46 cm (18")	Dual Type N-Female
CMD69273P-30D41F	Dual 30 cm (12")	Dual 4.1-9.5 DIN Female
CMD69273P-30D43F	Dual 30 cm (12")	Dual 4.3.10 DIN Female

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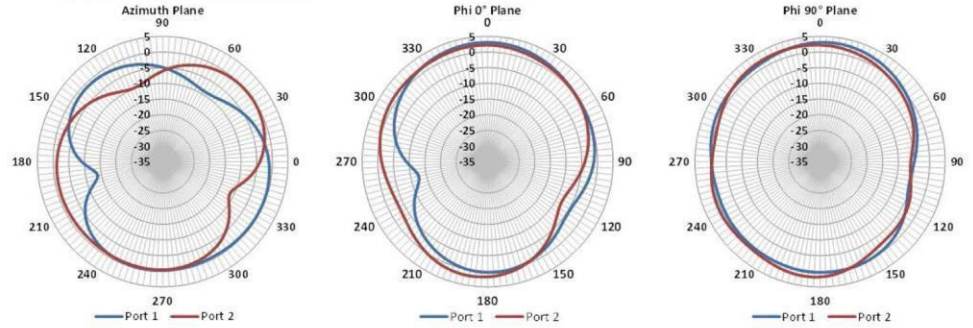
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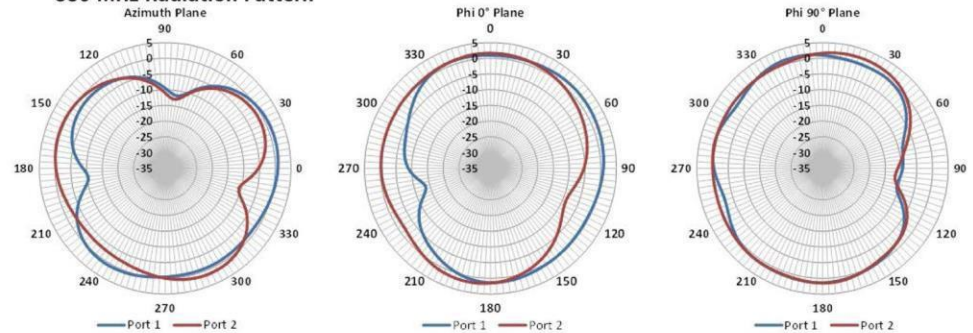
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#### PATTERNS

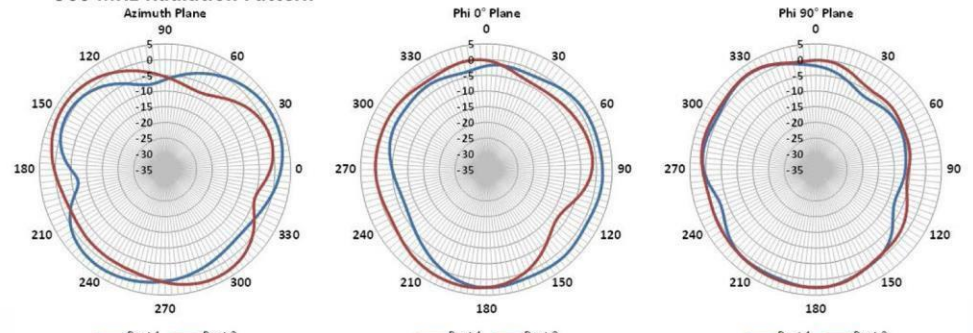
**698 MHz Radiation Pattern**



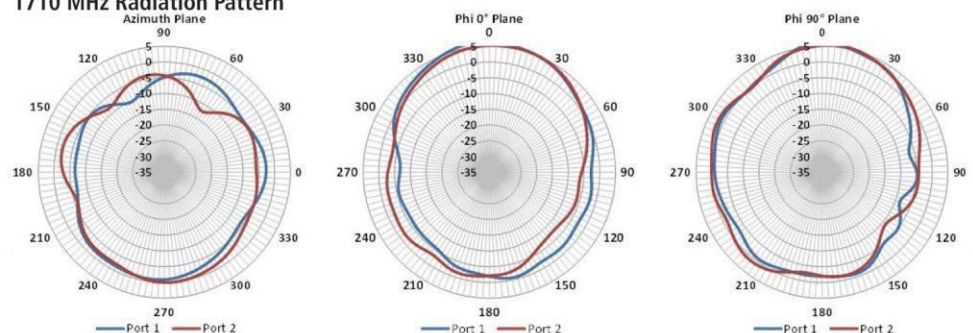
**880 MHz Radiation Pattern**



**960 MHz Radiation Pattern**

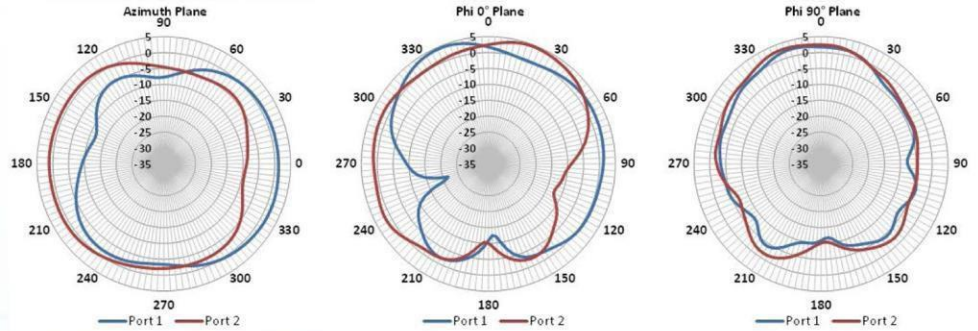


**1710 MHz Radiation Pattern**

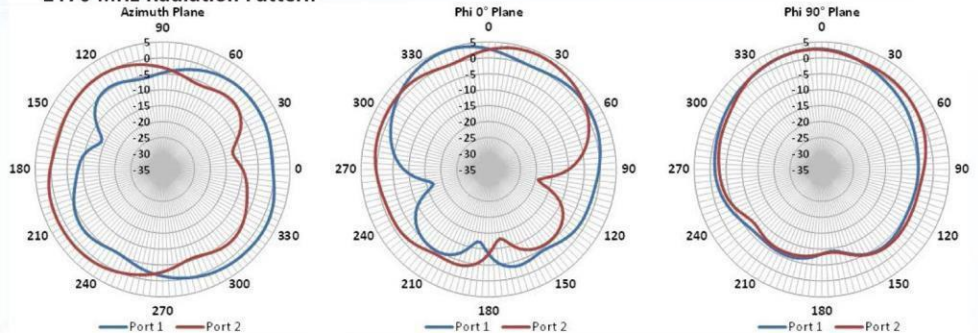


**PATTERNS**

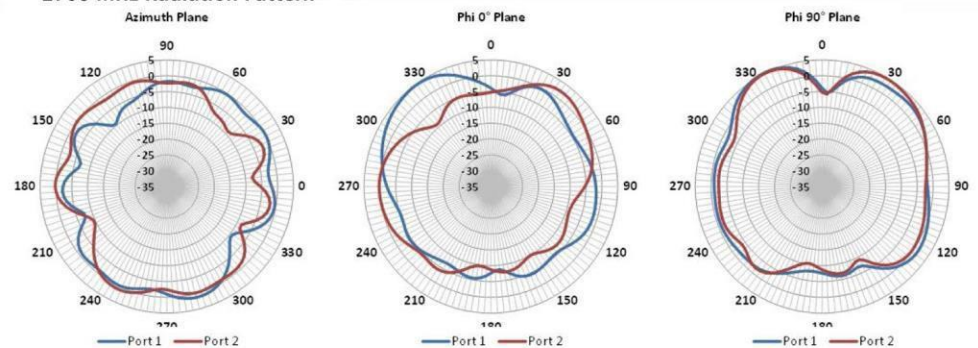
**1950 MHz Radiation Pattern**



**2170 MHz Radiation Pattern**



**2700 MHz Radiation Pattern**



ANT-DS-CMD69273P\_1116

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