



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 rd Order, 2 x20W (Typ)	<-154 dBc			<-155 dBc				
PIM, 3 rd 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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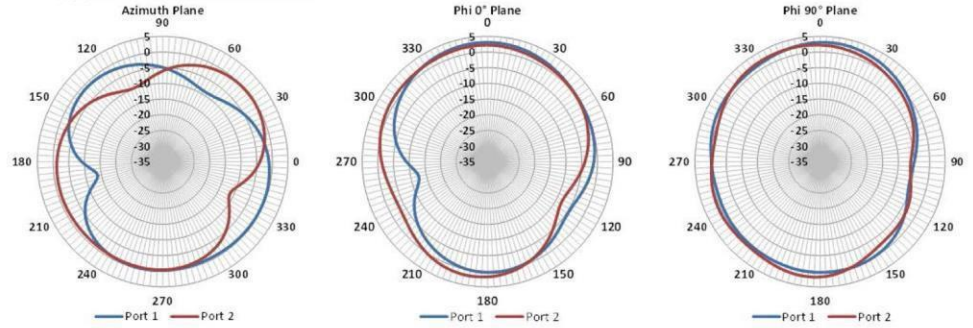
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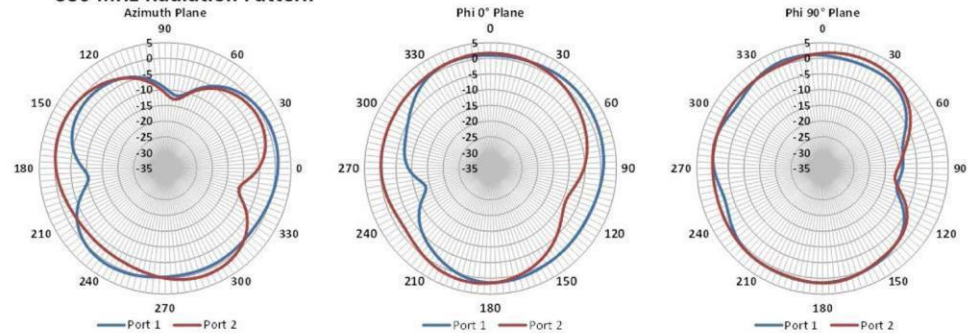
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PATTERNS

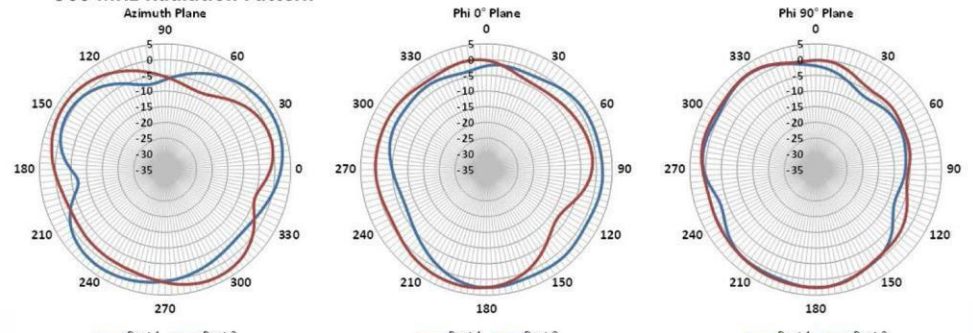
698 MHz Radiation Pattern



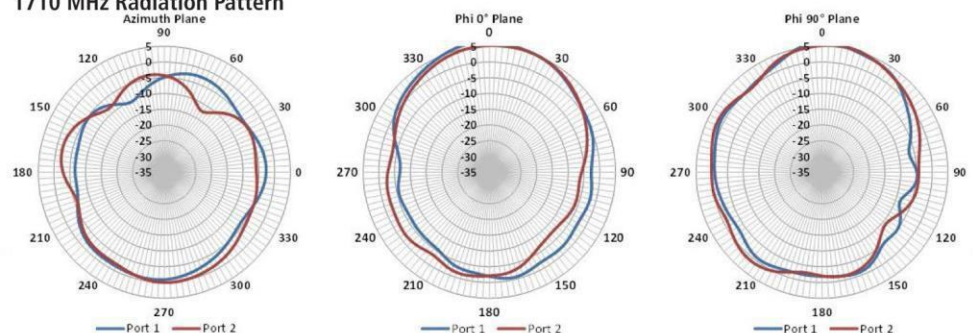
880 MHz Radiation Pattern



960 MHz Radiation Pattern

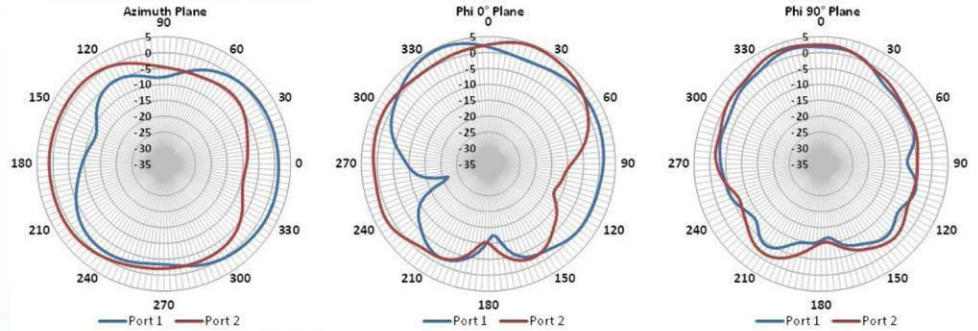


1710 MHz Radiation Pattern

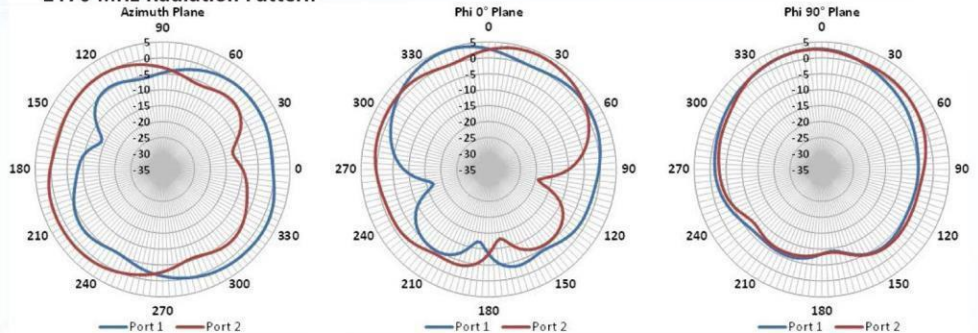


PATTERNS

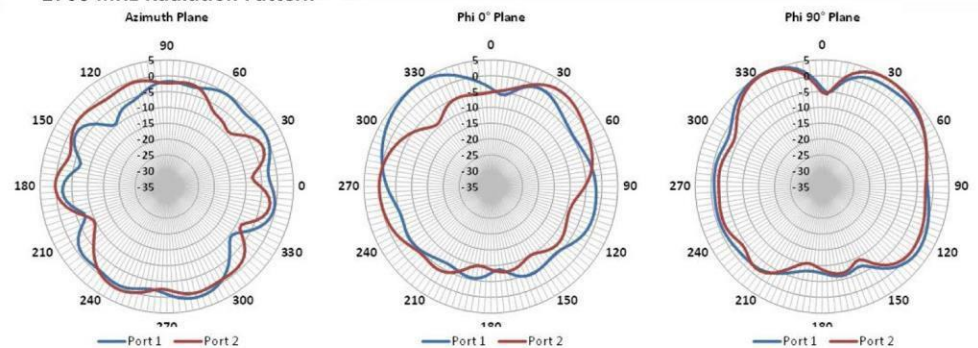
1950 MHz Radiation Pattern



2170 MHz Radiation Pattern



2700 MHz Radiation Pattern



ANT-DS-CMD69273P_1116

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