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CMD69273P

698to960MHz/1710to2700MHz 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 RoHS

- 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 datacommunications 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, 3rd Order, 2 x20W (Typ)		<-154 dBc				<-155 dBc			
PIM, 3rd Order, 2 x20W (Max)		<-150dBc							
Maximum VSWR		2.0:1							
Nominal Impedance		-50 Ω							
Max Power (Ambient temp of 25ºC)		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 (ºC)		-40º C to +85º C							
Operational Temperature (ºC)		-30º C to +70º C							
Plenum Rating Compliance*		ANSI/UL60950-1, UL 2043, IEC 60950-1							
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 Mini DIN Female

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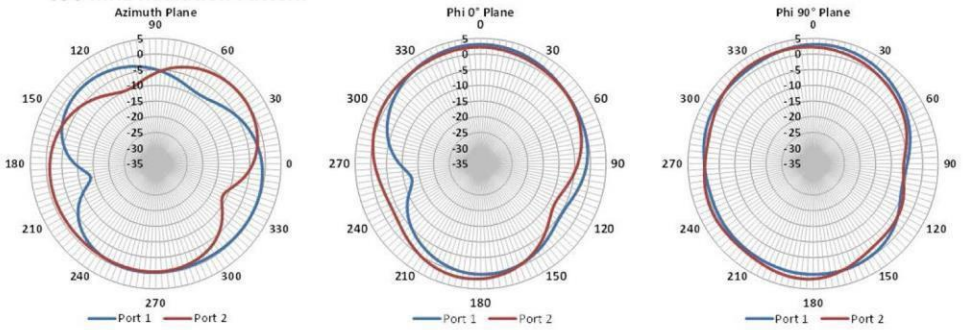
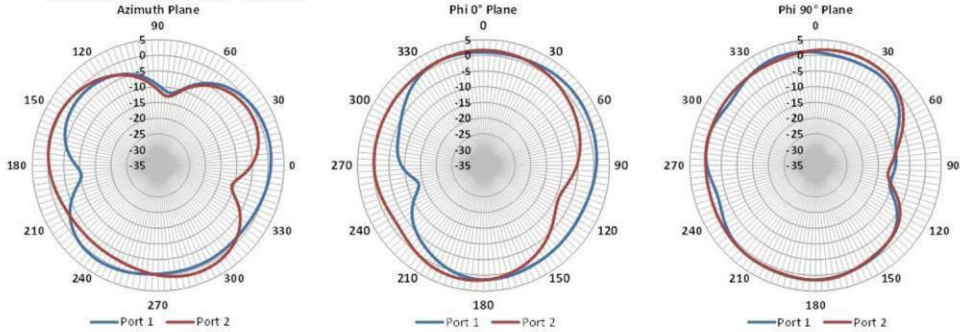
PATTERNS

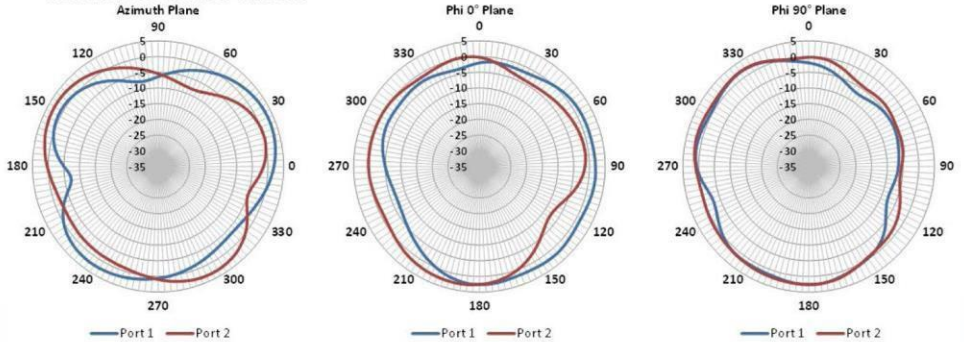
698 MHz Radiation Pattern



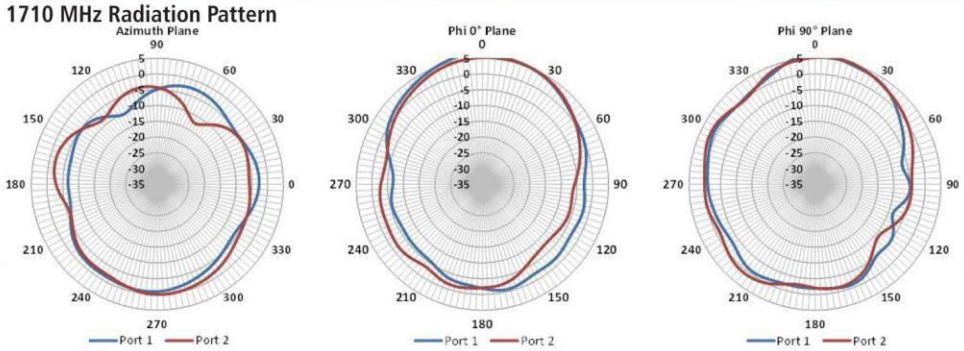
880 MHz Radiation Pattern



960 MHz Radiation Pattern



1710 MHz Radiation Pattern



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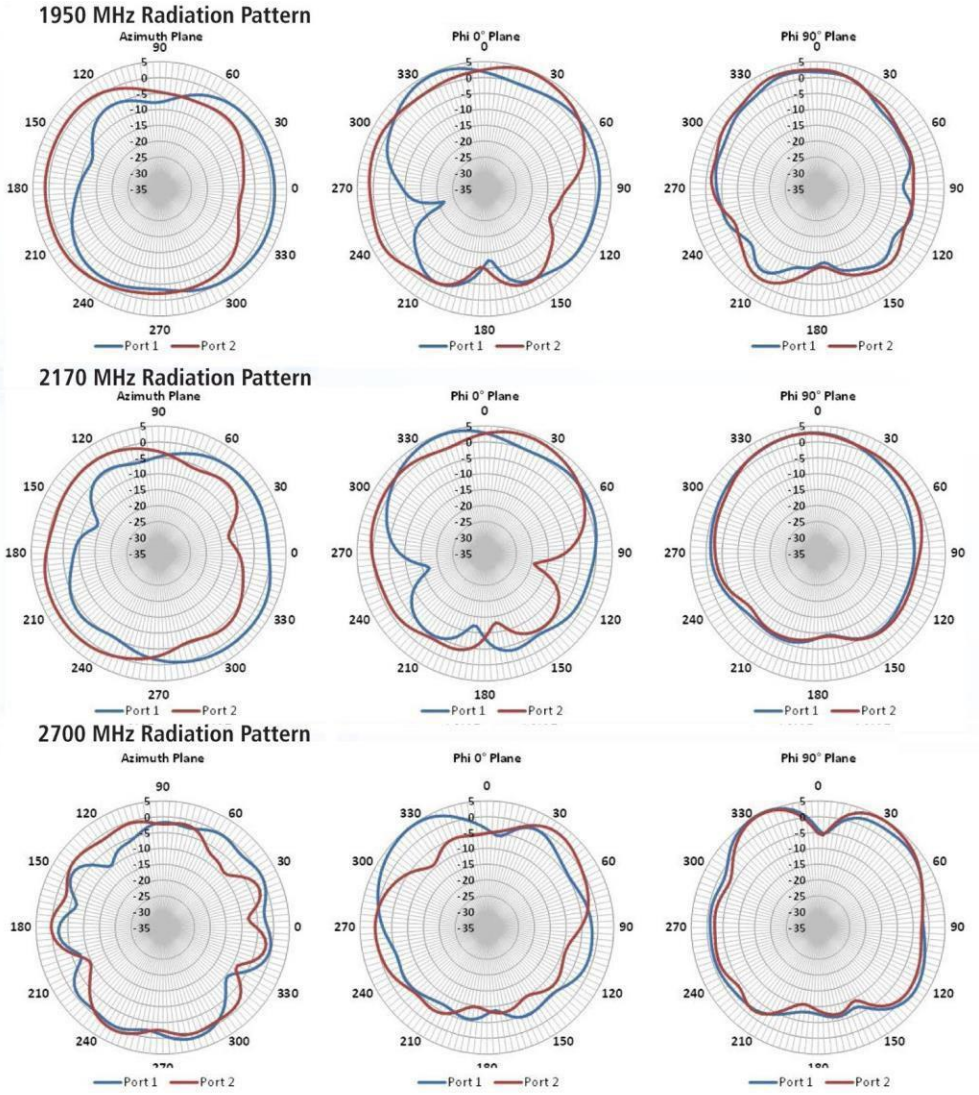

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