

# Low PIM 2-Port MIMO Ceiling Mount Antenna 698-960 MHz/1710-2700 MHz



The CMD69273P, using 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 698-960 MHz and 1710-2700 MHz 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 AND BENEFITS

- Mounts directly and easily to ceiling tile
- Two radiating elements optimized for indoor MIMO applications
- Low cross correlation between radiating elements
- Low passive intermodulation
- Complete cellular and 3G/4G data communications
- Full Plenum rating allows for above-ceiling installations

ELECTRICAL SPECIFICATIONS								
Operating Frequency (MHz)	698-806	824-894	880-960	1710-1880	1850-1990	1910-2170	2300-2500	2500-2700
VSWR – Avg	<1.7:1	<1.7:1	<1.7:1	<1.8:1	<1.7:1	<1.7:1	<1.5:1	<1.5:1
VSWR - Max		2.0:1						
Gain – Min (dBi)	3.1	3.1	2.8	5.9	4.5	4.3	5.9	6.9
Gain Horizon 30° – Max (dBi)	3.9	3.8	3.5	6.8	5.1	4.7	6.3	7.4
PIM - 2x20W – Typ (dBi)		< -154			< -155			
PIM - 2x20W – Max (dBi)		< -150						
Efficiency (%)								
Isolation – 2 (dB)	< -20	< -22	< -18	< -26	< -25	< -22	< -20	< -20
Nominal Impedance (Ohms)		-50						
Max Power - Ambient 25°C (W)		50						
Power Handling (W)								
Polarization		Linear H/V for each Radiator						
Azimuth Beamwidth		Omnidirectional						

MECHANICAL SPECIFICATIONS					
Dimensions – diameter x height – mm (in.)	218.7 (8.61) x 43.5 (1.71)				
Weight – kg (oz.)	0.41 (14.46)				
Radome	PC /ABS, UV stable				
Mounting	Ceiling mount (flush mount with screws and anchors)				

ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)		
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)		
Flammability Rating	UL 94V0 Materials		
Material Substance Compliance	RoHS Compliant		
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		

<sup>\*</sup> Antenna (with cables) - fully Plenum-compliant

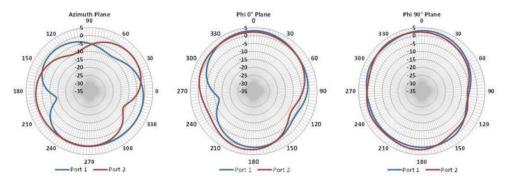
### CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
CMD69273P-FNF	N/A (direct connect)	Dual Type N-female
CMD69273P-30NF	Dual 30 cm (12 in.)	Dual Type N-female
CMD69273P-46NF	Dual 46 cm (18 in.)	Dual Type N-female
CMD69273P-30D41F	Dual 30 cm (12 in.)	Dual 4.1-9.5 DIN female
CMD69273P-30D43F	Dual 30 cm (12 in.)	Dual 4.3-10 DIN female

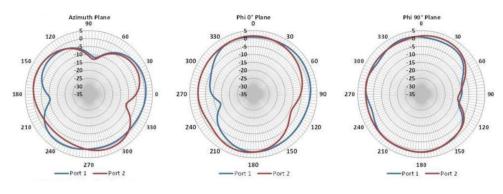


### **RADIATION PATTERNS**

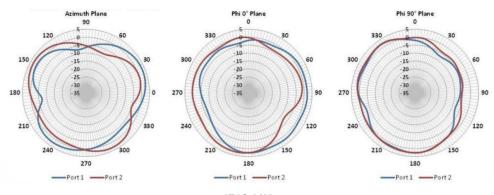
# 698 MHz



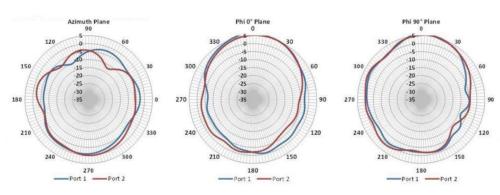
### 880 MHz



### 960 MHz



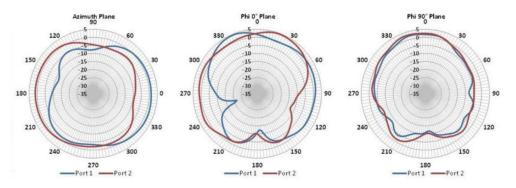
# 1710 MHz



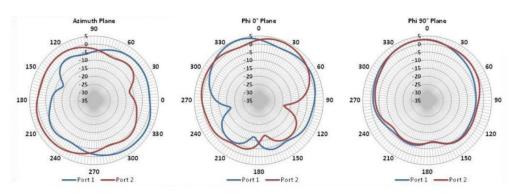


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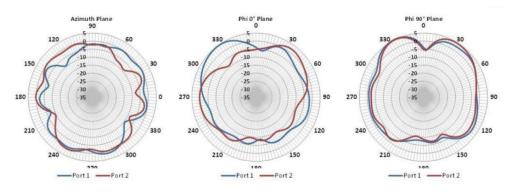
#### 1950 MHz



#### 2170 MHz



#### 2700 MHz



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