

CMD69423P

2-Port MIMO Ceiling Mount Antenna 698-960 MHz/1300-4200 MHz

The CMD69423P, using patent pending technology, is an indoor, low PIM, 2-port, omni-directional, ceiling mount antenna. The antenna is designed to deliver best-in-class performance for indoor requirements, operating between 698-960 MHz and 1300-4200 MHz. The individual antenna elements are designed with linear, vertical, and horizontal components and are optimized to radiate a specifically shaped pattern for optimal performance when installed on a ceiling.

FEATURES AND BENEFITS

- Wide bandwidth: 698-960 MHz and 1300-4200 MHz
- Services CBRS and 5G spectrum to 4200 MHz
- Low profile aesthetically-neutral housing
- Full Plenum rating
- Low port-to-port correlation, ensuring optimal MIMO performance
- Low PIM

ELECTRICAL SPECIFICATION						
Operating Frequency (MHz)	698-806	824 – 960	1350 – 1550	1690 – 2180	2300 – 2700	3300 - 4200
Number of Ports	2 x 2 MIMO					
VSWR – Max	2:1					
Gain (dBi) - Max	3.9	5.3	6.0	6.1	6.8	6.7
PIM - 2x20W (dBc)	< -150					
Isolation Port 1 – 2 (dB) - Max	-15	-15	-15	-16	-26	-20
Nominal Impedance (Ohms)	50					
Max Power - Ambient 25°C (W)	50					
Polarization	Linear, vertical and horizontal					
Vertical Plane 3 dB Beamwidth Port N	See radiation patterns					
Horizontal Plane 3 dB Beamwidth Port N	See radiation patterns					

MECHANICAL SPECIFICATION	
Dimensions – diameter x height – mm (inches)	218.7 x 43.5 (8.6 x 1.71)
Weight – g (lbs.)	430 (0.95)
Cable Length cm (in)	30 (11.8)
Radome Material	PC + ABS
Mounting	Ceiling mount (flush mount with screws and anchors)

ENVIRONMENTAL SPECIFICATION	
Operating Environment (Indoor or Outdoor)	Indoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-22 to +158°F)
Flammability Rating	UL94-V0
Material Substance Compliance	RoHS
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

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	PACKAGING
CMD69423P-30D43F	Dual 30 cm	Dual Female 4.3-10	Unit-packed
CMD69423P-30NF	Dual 30 cm	Dual Female N	Unit-packed
CMD69423P-B30D43F	Dual 30 cm	Dual Female 4.3-10	Bulk-packed
CMD69423P-B30NF	Dual 30 cm	Dual Female N	Bulk-packed

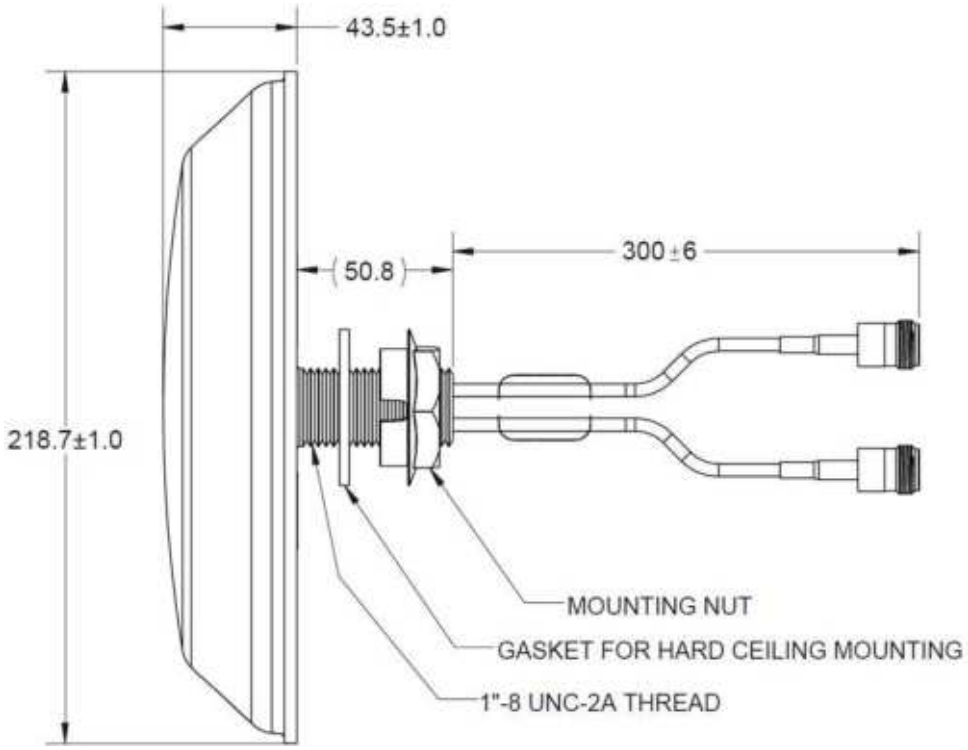
PACKAGING INFORMATION

PART NUMBER	DESCRIPTION
161-00155	Master carton
161-00070-B	Carton insert
161-00070-A	Unit carton

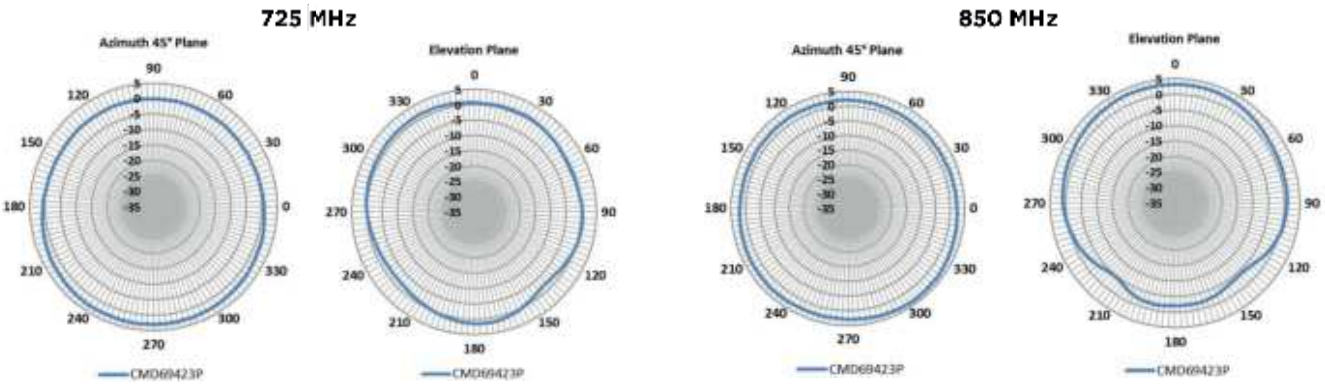
PACKAGED DIMENSION	CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	3	72	90
Height – cm (in.)	31.7 (12.48)	141.0 (55.51)	173.0 (68.11)
Length – cm (in.)	53.4 (21.02)	120.0 (47.24)	120.0 (47.24)
Width – cm (in.)	26.5 (10.43)	80.0 (31.50)	80.0 (31.50)
Shipping Weight – kg (lb.)		122 (270.0)	145 (320.0)

PACKAGED DIMENSION -BULK	CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	8	192	240
Height – cm (in.)	31.7 (12.48)	141.0 (55.51)	173.0 (68.11)
Length – cm (in.)	53.4 (21.02)	120.0 (47.24)	120.0 (47.24)
Width – cm (in.)	26.5 (10.43)	80.0 (31.50)	80.0 (31.50)
Shipping Weight – kg (lb.)		155 (341.7)	185 (407.9)

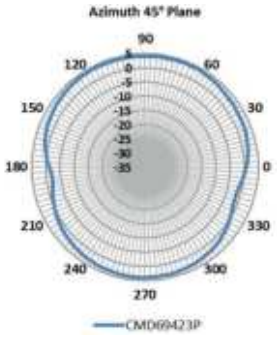
MECHANICAL DRAWING

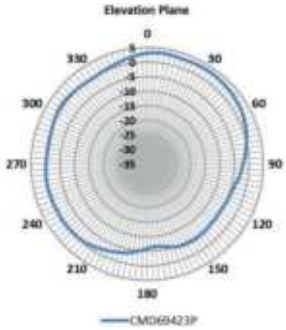


RADIATION PATTERNS

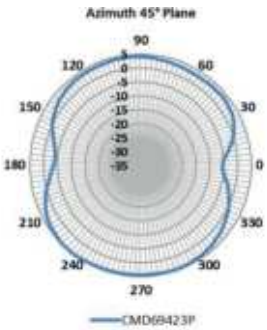


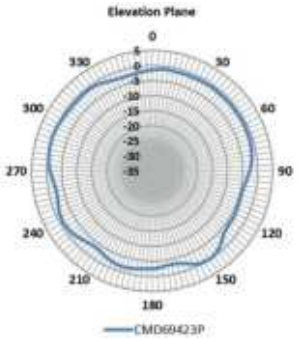
1448 MHz



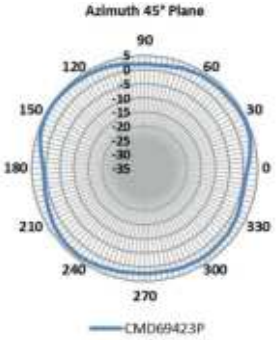


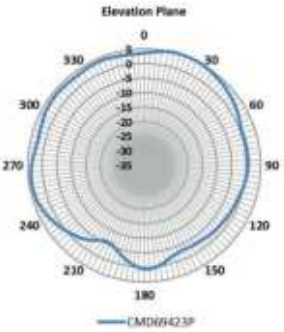
1730 MHz



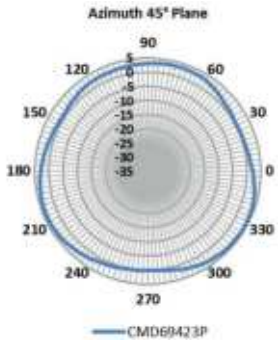


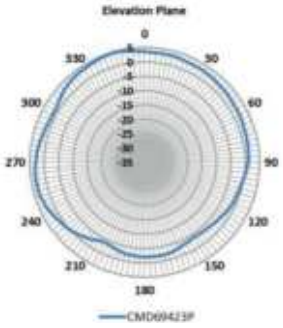
1930 MHz



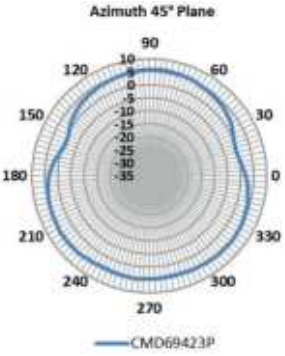


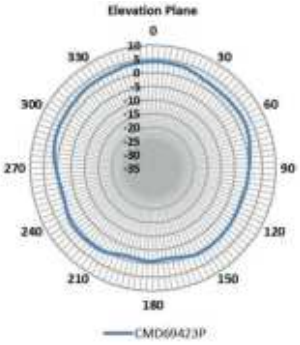
2130 MHz



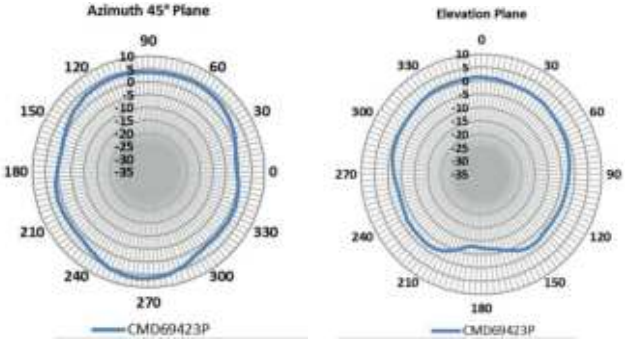


2310 MHz

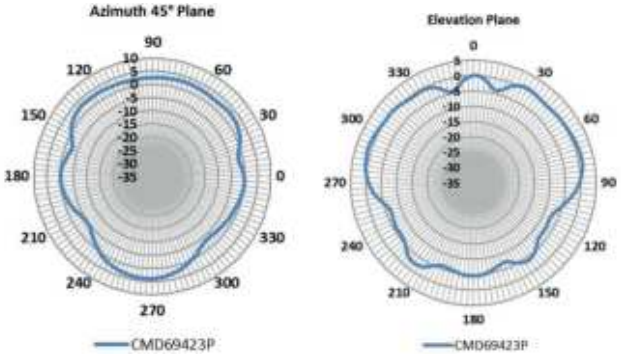




2600 MHz



3500 MHz



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original