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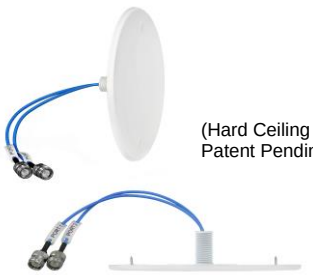
Laird CONNECTIVITY

CFD69383P/CFD69383P1

Ultra-low Profile MIMO 698-960 MHz/1350-1550 MHz/1690-4000 MHz



(Tile Mount)
Patent Pending
CFD69383P



(Hard Ceiling Mount)
Patent Pending CFD69383P1

These 2-port MIMO indoor wideband omnidirectional low-profile ceiling mount antennas are designed to provide pattern coverage optimized for indoor coverage requirements at 698-960 MHz and 1690-4000 MHz for the LTE, AWS-3, WCS, and CBRS/WiMAX frequency bands. The CFD69383P/CFD69383P1 are applicable for environments where aesthetics and wide-angle coverage are necessary for successful wireless deployment. Their small size and low profile enable maximum mounting flexibility while maintaining desired in-building aesthetics.

FEATURES AND BENEFITS

- Ultra-low profile
- 2-port MIMO for multipath mitigation
- Optimized performance using Laird proprietary tools
- Supports AWS-3 frequency band
- Mounts directly and easily to ceiling tile (CFD69383P1 is for hard ceiling mount installations)

ELECTRICAL SPECIFICATIONS											
Operating Frequency (MHz)	698-806	824-894	880-890	1350-1550	1690-1880	1850-1990	1910-2180	2300-2500	2500-2700	3300-3800	3800-4000
VSWR – Avg	<1.4:1	<1.4:1	<1.4:1	<1.7:1	<1.7:1	<1.6:1	<1.4:1	<1.3:1	<1.7:1	<1.7:1	<1.5:1
VSWR – Max	<1.5:1	<1.5:1	<1.5:1	<2.0:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<2.0:1	<2.0:1
Gain – Typ (dBi)	3.2	3.4	3.8	3.0	4.2	3.9	4.6	4.6	5.2	4.3	4.9
Gain – Max (dBi)	3.8	3.7	4.2	5.0	4.7	4.3	6.0	5.0	5.7	5.1	5.4
PIM - 2x20W – Avg (dBc)	< -158 (LTE low band)				< -160 (LTE high band)						
PIM - 2x20W – Max (dBc)	< -150 (LTE low band)				< -150 (LTE high band)						
Isolation – Avg (dB)	>20	>22	>23	>16	>16	>18	>19	>31	>36	>28	>30
Isolation – Max (dB)	>18	>18	>18	>13	>15	>15	>15	>25	>28	>25	>25
Nominal Impedance (Ohms)	50										
Max Power - Ambient 25°C (W)	50										
Polarization	Linear Horizontal										
Azimuth 3 dB Beamwidth	360°, Omnidirectional										

MECHANICAL SPECIFICATIONS	
Dimensions – height x diameter – mm (in.)	7.6 x 250 (0.3 x 9.84)
Weight – g (lbs.)	420 (0.93)
Antenna Color	White
Radome Material	PC, UL94-V0

ENVIRONMENTAL SPECIFICATIONS	
Operating Environment (Indoor or Outdoor)	Indoor
Operating Temperature – C° (F°)	-30 to +70C° (-22 to +158F°)
Storage Temperature – C° (F°)	-40 to +85C° (-40 to +185F°)
Material Substance Compliance	RoHS

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CFD69383P/CFD69383P1

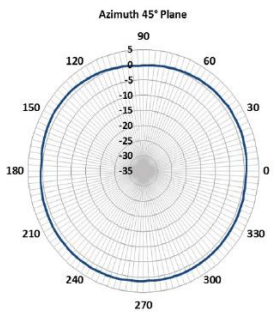
Ultra-low Profile MIMO

CONFIGURATION

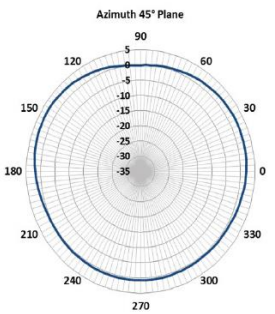
PART NUMBER	CABLE LENGTH	CONNECTOR	MOUNTING	PACKAGING
CFD69383P-30NF	30 cm (12 in.)	Type N-female	Ceiling tile	Unit
CFD69383P-30D43F	30 cm (12 in.)	4.3-10 female	Ceiling tile	Unit
CFD69383P-30D43F	30 cm (12 in.)	Type N-female	Ceiling tile	Bulk
CFD69383P-B30D43F	30 cm (12 in.)	4.3-10 female	Ceiling tile	Bulk
CFD69383P1-30NF	30 cm (12 in.)	Type N-female	Hard ceiling	Unit
CFD69383P1-30D43F	30 cm (12 in.)	4.3-10 female	Hard ceiling	Unit
CFD69383P1-B30NF	30 cm (12 in.)	Type N-female	Hard ceiling	Bulk
CFD69383P1-B30D43F	30 cm (12 in.)	4.3-10 female	Hard ceiling	Bulk

RADIATION PATTERNS

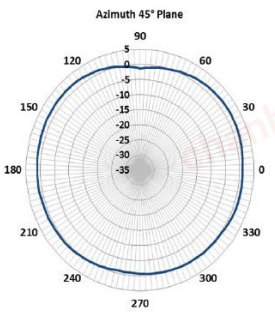
698 MHz



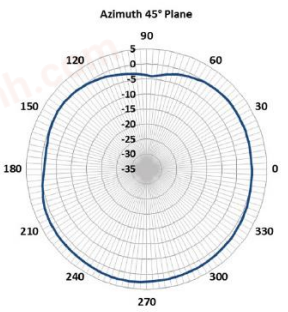
806 MHz



960 MHz



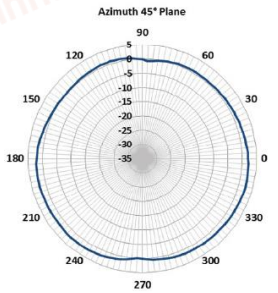
1427 MHz

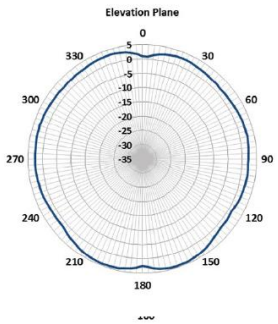


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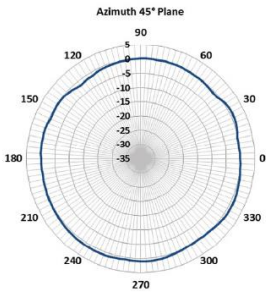
RADIATION PATTERNS

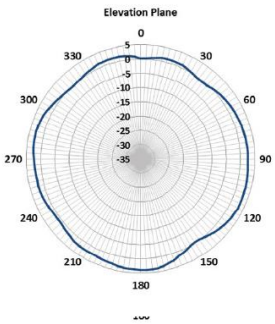
1710 MHz



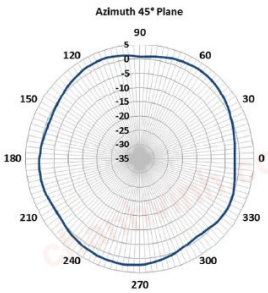


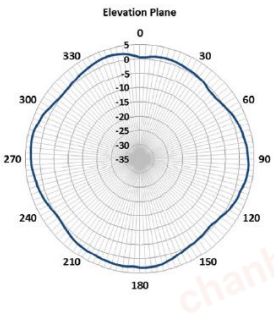
1880 MHz



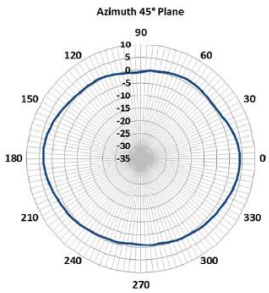


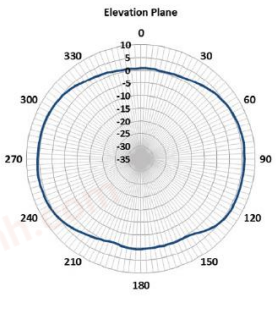
1990 MHz



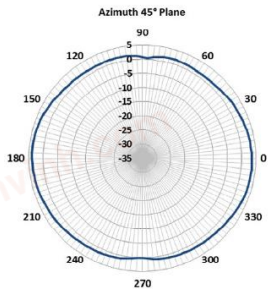


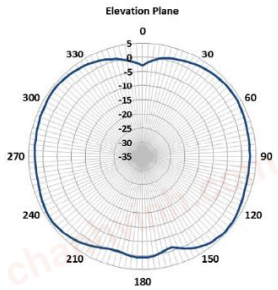
2180 MHz



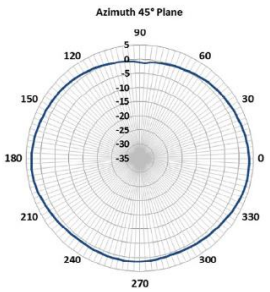


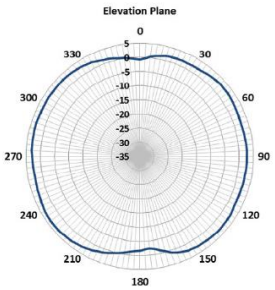
2412 MHz



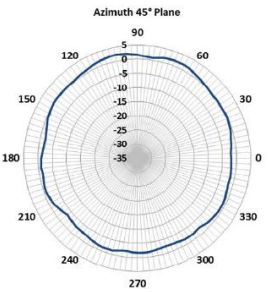


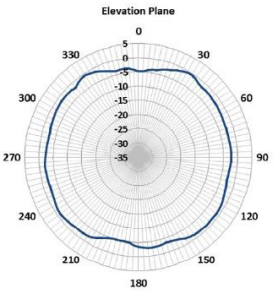
2600 MHz



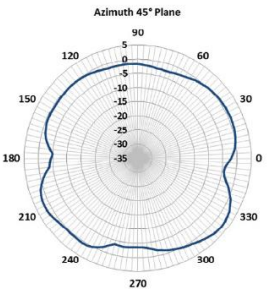


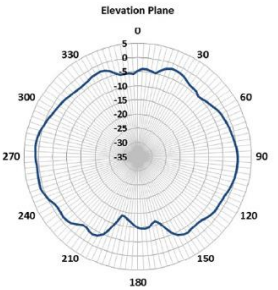
3500 MHz





4000 MHz





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RoHS

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