



Patent Pending CLS69273

CLS69273

Low Profile Ceiling Mount Antenna 698-960 MHz/1695-2700 MHz

The CLS69273 is an indoor wideband omnidirectional low-profile ceiling mount antenna. It is designed to provide pattern coverage that is optimized for indoor coverage requirements at 698-960 MHz, and 1695-2700 MHz for the GSM, DCS, UMTS, AWS-3 and LTE/WiMAX frequency bands. The antenna features a pattern that has been specifically shaped to provide optimal performance from a ceiling mount location. The pattern is also very uniform and symmetrical, providing system integrators with the ability to precisely determine cell size.

FEATURES AND BENEFITS

- Low profile, aesthetically-neutral housing
- Mounts directly and easily to ceiling tile
- Excellent flame rating
- Performance optimized using Laird's proprietary RF optimization tools
- Supports AWS-3 frequency band

ELECTRICAL SPECIFICATION

Operating Frequency (MHz)	698-806	824-894	880-960	1695-1880	1850-1990	1910-2170	2300-2500	2500-2700
Gain - Avg (dBi)	2.7	2.6	3.5	5.4	6.4	6.5	6.2	6.8
Gain - Max (dBi)	3.0	3.0	4.1	5.6	7.0	7.0	6.7	7.3
VSWR - Avg	<1.6:1	<1.5:1	<1.8:1	<1.7:1	<1.7:1	<1.7:1	<1.5:1	<1.3:1
VSWR - Max	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1	<2.0:1
Nominal Impedance (Ohms)	50							
Max Power - Ambient 25°C (W)	50							
Polarization	Vertical							
Azimuth Beamwidth	Omnidirectional							

MECHANICAL SPECIFICATION

Dimensions - diameter x height - mm (inches)	250 x 47.5 (9.84 x 1.87)
Weight - kg (lbs.)	Approximately 0.45 (0.99)
Cable Type	Coax Cable RG58
Radome Material	PC/ABS, White
Lightning Protection	N/A

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 (-40 to +185°F)
Flammability Rating (Radome)	UL94 V-0
Material Substance Compliance	RoHS

PART NUMBER	CABLE LENGTH	CONNECTOR
CLS69273-30NF	30 cm (12 in.)	Type N-female
CLS69273-B30NF	30 cm (12 in.)	Type N-female

MOUNTING OPTIONS

Standard Ceiling Mount



Twist and lock ceiling mount (HKIT-CMx-003)

Optional Ceiling Mount



Above ceiling mount (HKIT-CMx-001)



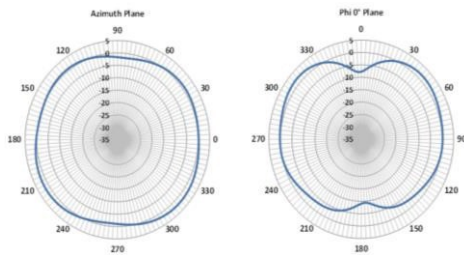
Hard ceiling mount (HKIT-CMx-002)



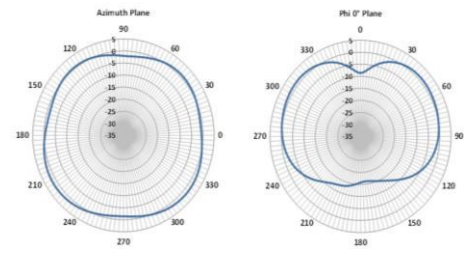
Above ceiling mount - foam standoff w/ adhesive (HKIT-CMx-004)

RADIATION PATTERNS

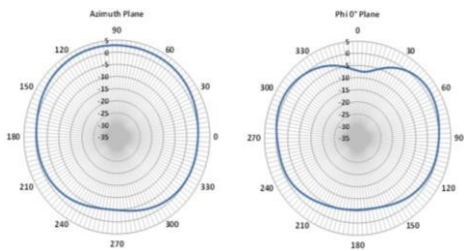
698 MHz



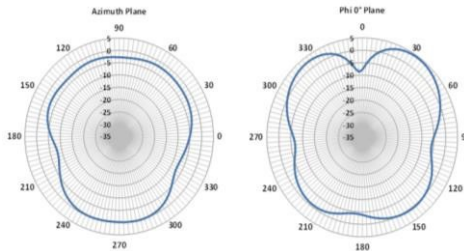
824 MHz

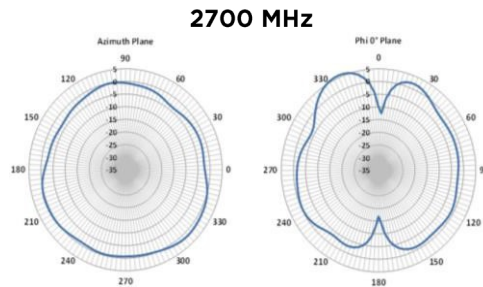
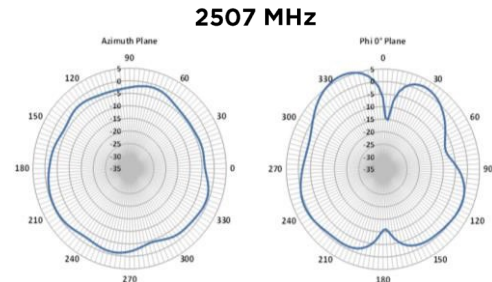
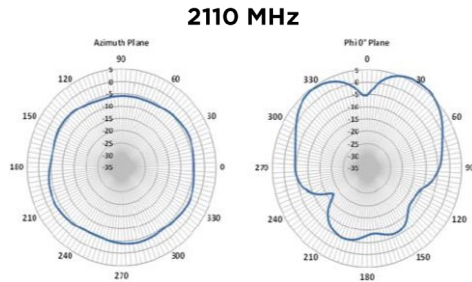
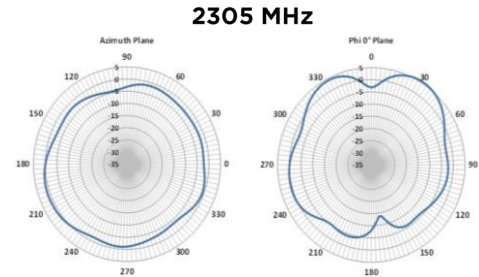
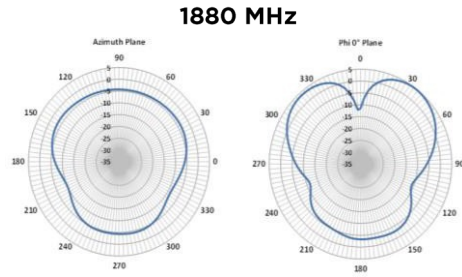


960 MHz



1710 MHz





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