

2.4-2.5 GHz Flat Panel Antenna, 8 dBi Gain,
RHCP, 5.1x5.1 inch Square, Wall Mount, 16 inch
Pigtail with RP-SMA Male Connector



LCANFP1073-SM

Features

- Concealable Design
- Right Hand Circular Polarized
- 2.4 to 2.5 GHz Frequency Range
- RP-SMA Male Connector
- Multi RFID tag read/write Capabilities

Applications

- Radio Frequency Identification
- Inventory Management
- Access Control
- Data Collection
- Asset Tracking
- Livestock Management

Description

L-com's LCANFP1073-SM is a right hand circular polarized (RHCP) flat panel antenna. The LCANFP1073-SM with a 8 dBi gain nominal is a directional antenna. Our 2400 to 2500 MHz Antenna has a Reverse Polarity SMA Male connector.

With an impedance of 50 Ohms and max input power of 50 Watts, the LCANFP1073-SM flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 2400-2500 MHz 8 dBi gain RFID antenna is highly directional providing the reader radio the capabilities of simultaneously reading a multitude of RFID tags with a high degree of accuracy.

L-com's RFID LCANFP1073-SM has a radome made of ABS in white color. This RP-SMA Male connectorized Antenna has an overall length of 5 in, width of 5 in, and weighs 1 lbs. Use our on-line ordering system to purchase your LCANFP1073-SM RFID directional RHCP antenna 24 hours a day with same-day shipping and no MOQs (minimum order quantities).

Configuration

Design	Flat Panel
Band Type	Single
Radiation Pattern	Directional
Polarization	RHCP
Cable Type	RG58U
Cable Length	16 in [406.4 mm]
Connector Type	SMA Male Reverse Polarity
Number of Ports	1
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Impedance		50		Ohms
Gain		8		dBi
Front to Back Ratio	8			dB
Horizontal (Azimuth) HPBW		65		Degrees
Vertical (Elevation) HPBW		55		Degrees
Input Power			25	Watts

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Mechanical Specifications

Radome Material	ABS
Size	
Length	5.1 in [129.54 mm]
Width	5.1 in [129.54 mm]
Height	0.7 in [17.78 mm]
Mounting Mast Diameter	1.377 to 1.96 in [34.98 to 49.78 mm]
Weight	0.77 lbs [349.27 g]

Environmental Specifications

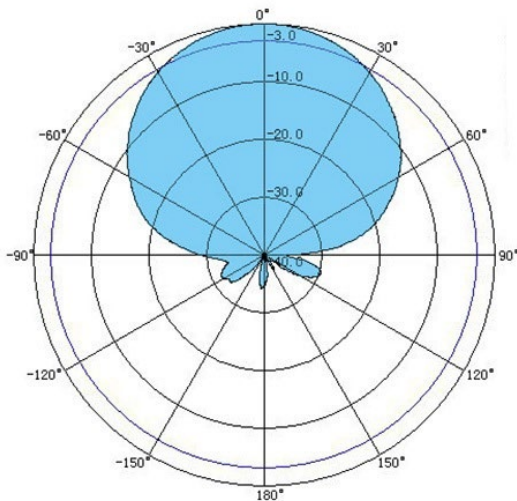
Temperature	
Operating Range	-40 to +85 deg C
Wind Survivability	134 MPH [215.65 KPH]

Compliance Certifications (see [product page](#) for current document)

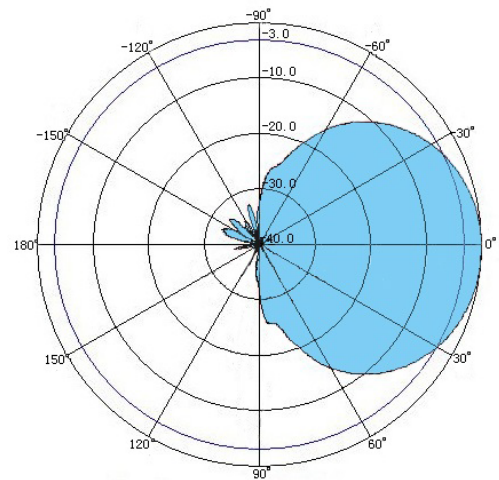
Plotted and Other Data

Notes:

Typical Radiation Pattern



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Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

2.4-2.5 GHz Flat Panel Antenna, 8 dBi Gain, RHCP, 5.1x5.1 inch Square, Wall Mount, 16 inch Pigtail with RP-SMA Male Connector from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/2.4-2.5-ghz-flat-panel-antenna-8-dbi-gain-rhcp-5.1x5.1-inch-square-wall-mount-16-inch-pigtail-rp-sma-male-connector-lcanfp1073-sm-p.aspx>

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LCANFP1073-SM CAD Drawing

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