

2.4 GHz to 2.5 GHz Concave Shaped Antenna,
Dipole, RPSMA Male Connector, 3 dBi Gain



LCANRBD1047

Features

- 2400-2500 MHz, 3 dBi Gain
- RP-SMA male connector
- Plug and play
- VSWR < 2:1
- Linear polarization
- Dipole antenna

Applications

- 2.4 GHz Wi-Fi and ISM applications
- WLAN applications
- IOT, Wireless audio/video systems
- Home automation
- Telemetry, remote monitoring
- Wireless data acquisition
- 802.11 b/g/n, wireless hotspots
- PtP and PtMP applications
- 5G Band: n53

Description

The L-com LCANRBD1047 is an omni antenna operating from 2.4 GHz to 2.5 GHz with 3 dBi gain. The RP-SMA male connector on the communication antenna enables it to be used vertically or at any angle in between. Our rubber duck antenna is 0.53 inches wide, 5.8 inches long, and 0.53 inches tall. Our concave-shaped omni antenna is specifically stocked to be available for same business day shipment.

This dipole omnidirectional antenna has a linear polarization, an RP-SMA male connector and an TPEE/ABS radome material. Our 3 dBi gain LCANRBD1047 antenna transmits high power signals, increasing the signal strength, thus providing improved coverage, better broadcast control, and faster speed. L-com single-band antenna has a gain of 3 dBi antenna for the 2.4 GHz to 2.5 GHz frequency range. Our black omnidirectional antenna functions between -40 to 65 degrees C and has 50 Ohm impedance.

L-com WiFi antenna is ideal for 2.4 GHz Wi-Fi and ISM applications, WLAN, Bluetooth, IOT, wireless audio systems, home automation, telemetry, remote monitoring, wireless data acquisition, 802.11 a/b/g/n/ax, wireless hotspots. These 3 dBi antennas have a waterproof design, a high power handling capacity, and IPx7 ingress protection rating. Our high-quality LCANRBD1047 omnidirectional antenna has a maximum input VSWR of 2:1, which results in the best power transfer and reduced losses.

The 3 dBi gain omni directional antenna is just one of many fiber optic products that are available from L-com for international and domestic orders. We are a global leader in wired and wireless connectivity products, offering a wide range of solutions across many key industries, including electronics, medical, industrial automation, military, and telecommunication. L-com also stocks a wide selection of 2.4 GHz to 2.5 GHz antennas that ship same-day from our warehouse.

Configuration

Design	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Linear
Connector Type	SMA Male Reverse Polarity

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[2.4 GHz to 2.5 GHz Concave Shaped Antenna, Dipole, RPSMA Male Connector, 3 dBi Gain LCANRBD1047](#)

2.4 GHz to 2.5 GHz Concave Shaped Antenna,
Dipole, RPSMA Male Connector, 3 dBi Gain



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Frequency Range	2,400	2,500	MHz
Input VSWR		2:1	
Impedance	50		Ohms
Gain	2	3	dBi
Input Power		10	Watts

Mechanical Specifications

Radome Material	TPEE/ABS
Size	
Length	5.8 in [147.32 mm]
Width	0.53 in [13.46 mm]
Height	0.53 in [13.46 mm]
Weight	0.0396 lbs [17.96 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +65 deg C
Storage Range	-40 to +80 deg C
Environment	Waterproof
Ingress Protection	IPx7

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

Plotted and Other Data

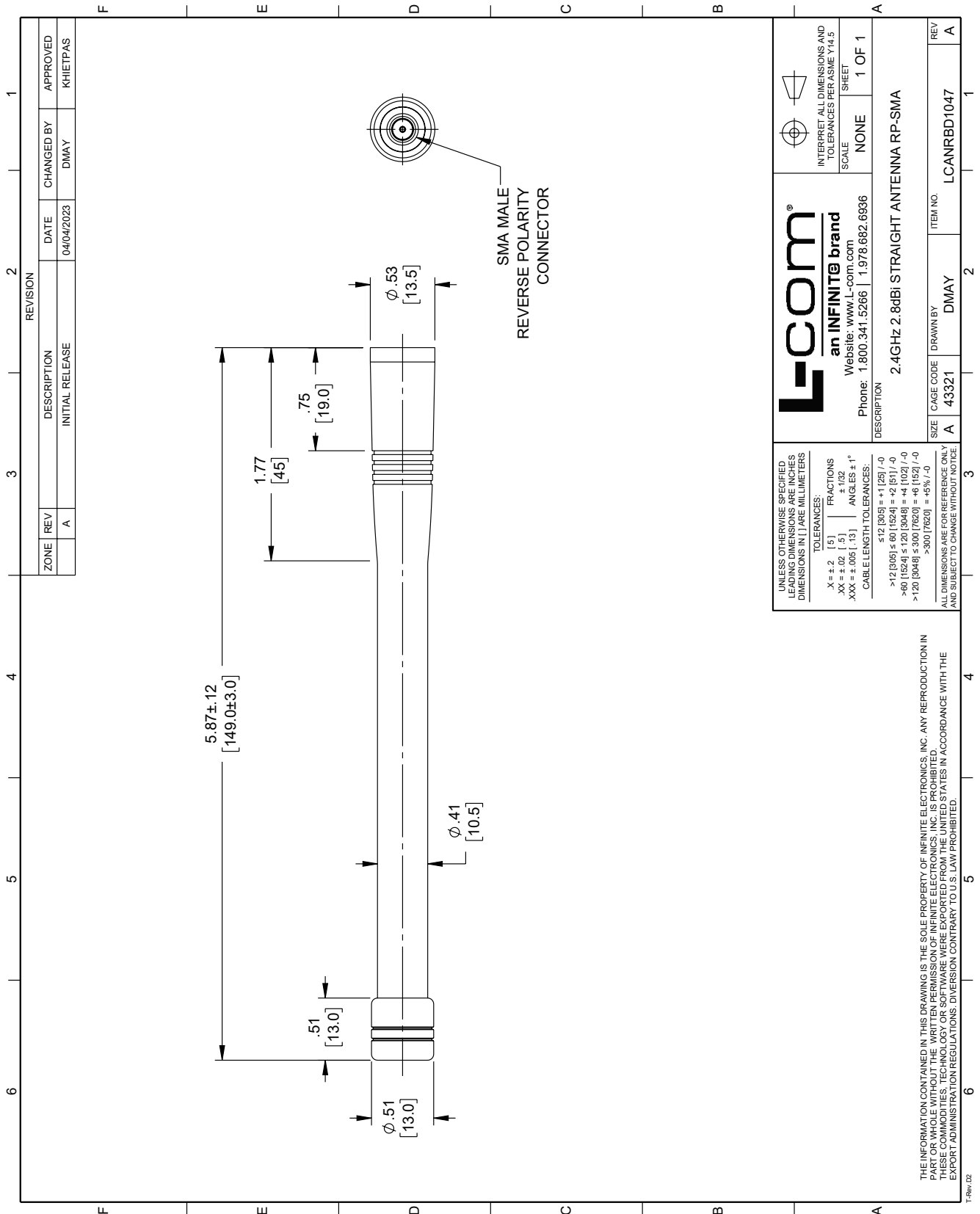
Notes:

2.4 GHz to 2.5 GHz Concave Shaped Antenna, Dipole, RPSMA Male Connector, 3 dBi Gain 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.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing



ZONE		REVISION		CHANGED BY		APPROVED	
A	1	INITIAL RELEASE	04/04/2023	DMAY	KHIETPAS		

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS.
TOLERANCES:
X = +.2 [5] FRACTIONS
XX = +.02 [5] +.132
XXX = +.005 [13] ANGLES ± 1°
CABLE LENGTH TOLERANCES:
≤ 12 [305] ± .001 [25] / -0
> 12 [305] ± .001 [25] / -0
> 60 [1524] ± .001 [25] / -0
> 120 [3048] ± .001 [25] / -0
> 300 [7620] ± .001 [25] / -0

DESCRIPTION: 2.4GHz 2.8dBi STRAIGHT ANTENNA RP-SMA

SIZE A CAGE CODE 43321 DRAWN BY DMAY ITEM NO. LCMRBD1047

REV A

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