

2.4 GHz 2 dBi Rubber Duck Antenna RP-SMA Plug Connector



HG2402RDR-1-RSP

Features

- High Performance 2 dBi
- Flexible “Rubber Duck” Antenna
- Optional Magnetic Mount Available
- RIGID RP-SMA Plug Connector

Applications

- Multipoint and Mobile Applications & Bluetooth[®]
- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g, 802.11x (WiFi 6) Wireless LAN
- IEEE 802.11n (Pre-N, Draft-N) Applications
- Public Wireless Hotspot
- Wireless Video Systems
- IoT Systems

Description

The HG2402RDR-1-RSP from L-com is an economical yet high performance omnidirectional “rubber-duck” antenna designed for the 2.4 GHz ISM band. It features a RIGID connection to the Revers Polarity SMA-Plug (RP-SMA) connector, permitting upright solid installation to the radio or coax. It is a coaxial sleeve design with an omni-directional pattern. It is ideally suited for IEEE 802.11b, 802.11g, 802.11n and 802.11ax (WiFi 6) Wireless LANs, Bluetooth, IoT and other applications.

The L-com high performance rubber-duck HG2402RDR-1-RSP is a flexible antenna providing broad coverage and 2 dBi gain. It is suitable as a replacement RF antenna for 2.4 GHz radios that are equipped with RP-SMA connectors. This is primarily a replacement to the OEM antenna rather than a “range extender” type product.

This 2.4 GHz WiFi antenna, as well as our wide selection of superior quality RF parts, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other L-com products.

Configuration

Design	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Linear
Connector Type	SMA Male Reverse Polarity
Number of Ports	1
Housing Material and Plating	ABS, Black

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2		dBi
Input Power			10	Watts

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 2 dBi Rubber Duck Antenna RP-SMA Plug Connector HG2402RDR-1-RSP](#)

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HG2402RDR-1-RSP

Mechanical Specifications

Housing Material	ABS
Housing Plating/Color	Black
Radiator Material	Copper
Size	
Length	2.95 in [74.93 mm]
Width	0.39 in [9.91 mm]
Height	0.39 in [9.91 mm]
Weight	0.1 lbs [45.36 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +65 deg C
Storage Range	-40 to +80 deg C

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

Plotted and Other Data

Notes:

2.4 GHz 2 dBi Rubber Duck Antenna RP-SMA Plug 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.

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

REVISIONS		
REV.	DESCRIPTION	DATE
A	REV A DRAWING RELEASED	05/01/18
		APPROVED JL ABOY

DIMENSIONS
ARE
MILLIMETERS

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">.X = ± .2 [5.08]</td> <td style="width: 50%;">FRACTIONS ± 1/32</td> </tr> <tr> <td>.XX = ± .02 [.51]</td> <td>ANGLES ± 1°</td> </tr> <tr> <td>.XXX = ± .005 [.13]</td> <td></td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td>L ≤ 12 [305] < L ≤ 60 [1524] = +1 [25] / -0</td> </tr> <tr> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td>300 [7620] < L = +5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ± .2 [5.08]	FRACTIONS ± 1/32	.XX = ± .02 [.51]	ANGLES ± 1°	.XXX = ± .005 [.13]		L ≤ 12 [305] < L ≤ 60 [1524] = +1 [25] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	300 [7620] < L = +5%L / -0	<p style="text-align: center;">L-comTM an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845, USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p> <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DIMENSIONS SHOWN ARE THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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