

## 2 Watt RF Load With Chain Up to 18 GHz With SMA Female Stainless Steel Body



### LCTR1174C

#### Features

- DC to 18 GHz Frequency Range
- VSWR <1.2:1
- Max Power 2 Watt (CW)
- SMA Female Coaxial Interface
- Includes Beaded Chain

#### Applications

- Wireless
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military Communications

#### Description

L-com's LCTR1174C is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 2 Watt (CW). Our SMA termination/load has a female gender. LCTR1174C SMA load termination offers 1.2:1 VSWR max.

RF load / termination are indispensable components in many RF, microwave and millimeter wave systems where signal reflections from unused ports can potentially damage the device or reduce the signal integrity. By using a terminator on an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, circulators, and switches. They are also widely used in measurement systems to ensure accurate results. L-com offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watt (CW).

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
VSWR, Input			1.2:1	
Input Power (CW)			2	Watts
Derated linearly to 1W @ 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Input Typ	1.1:1	1.15:1	1.2:1			

#### Mechanical Specifications

##### Size

Length	0.559 in [14.2 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.008 lbs [3.63 g]

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#### Configuration

Connector	SMA Female
Mating Torque	7 to 9.5 in-lbs [0.79 to 1.07 Nm]

#### Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over nickel
Insulation	Teflon	
Gasket	Silicone	
Connector 1 Body	Stainless Steel	Passivated
Chain	Brass	Copper-Tin-Zinc Alloy

#### Environmental Specifications

##### Temperature

Operating Range	-55 to +70 deg C
Ingress Protection (IP) Rating	IP67
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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

#### Plotted and Other Data

Notes:

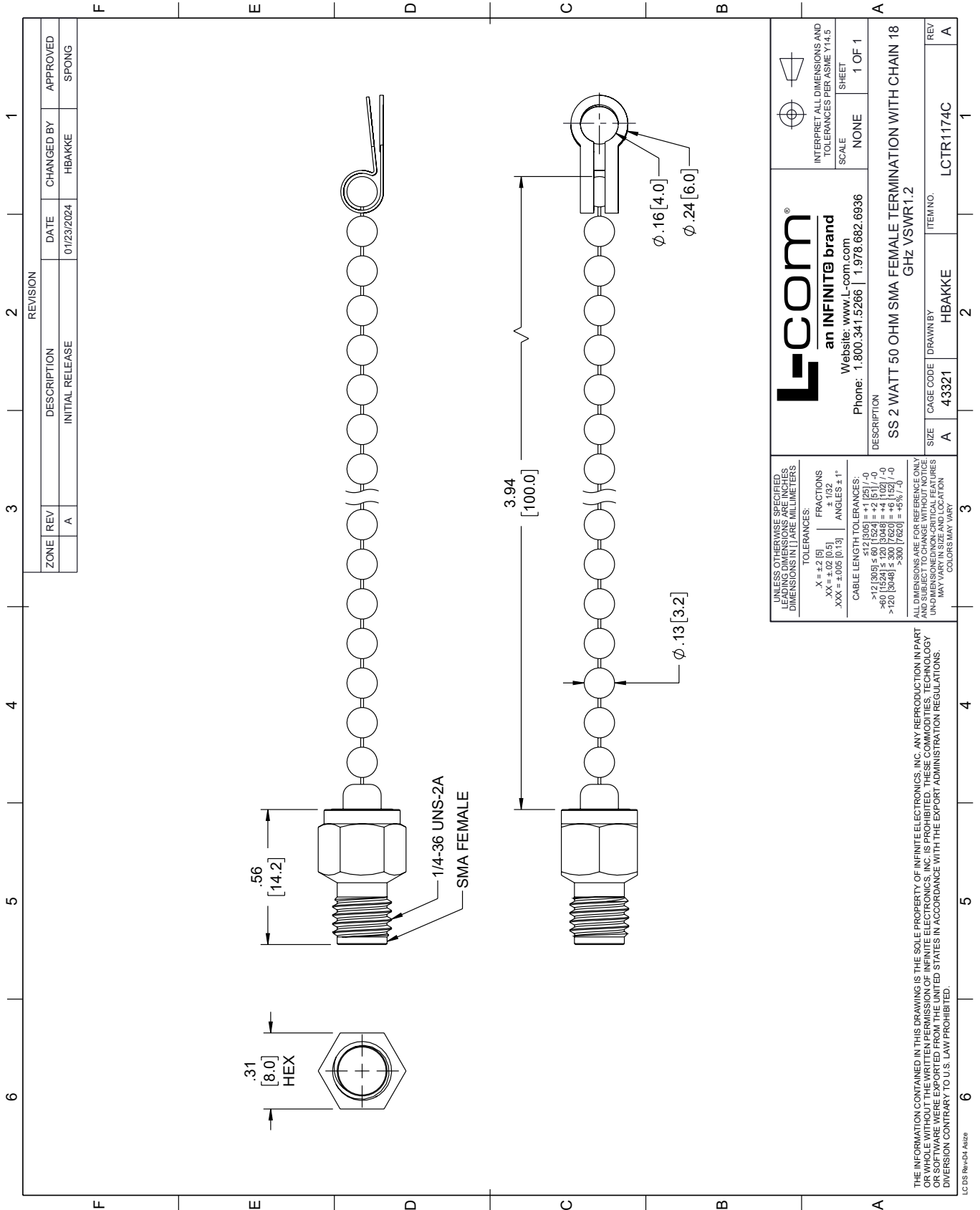
2 Watt RF Load With Chain Up to 18 GHz With SMA Female Stainless Steel Body from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/2-watts-sma-female-rf-load-18-ghz-lctr1174c-p.aspx>

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# LCTR1174C CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	01/23/2024	HBAKKE	SPONG

**L-com**  
an INFINITE brand  
Website: www.L-com.com  
Phone: 1.800.341.5266 | 1.978.682.6936

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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

DESCRIPTION: SS 2 WATT 50 OHM SMA FEMALE TERMINATION WITH CHAIN 18 GHz VSWR1.2

SIZE	A	CAGE CODE	43321	DRAWN BY	HBAKKE	ITEM NO.	LCTR1174C
REV	A						

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