

1 Watt RF Load Up to 18 GHz with SMA Female



LCTR1007

Features

- Frequency range from DC to 18GHz
- Max Power 1W
- Operating temp range from -55 to 125C
- VSWR <1.40:1

Applications

- Coaxial termination
- 50 Ohm applications
- Signal splitters

Description

L-com's LCTR1007 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 1 Watt (CW). This SMA termination / load has a female gender. LCTR1007 termination offers 1.40:1 max VSWR.

RF loads/terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
VSWR			1.4:1	
Input Power (CW) derated linearly to 0.1W @ +125°C			1	Watt
Input Power (Peak) 5µs pulse with 0.4% duty cycle			250	Watts

Mechanical Specifications

Size

Length	0.63 in [16 mm]
Width	0.36 in [9.14 mm]
Weight	0.011 lbs [4.99 g]

Configuration

Connector	SMA Female
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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:
[1 Watt RF Load Up to 18 GHz with SMA Female LCTR1007](#)

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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Outer Conductor	Brass	Nickel
Body	Brass	Nickel

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

1 Watt RF Load Up to 18 GHz with SMA Female 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. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1 Watt RF Load Up to 18 GHz with SMA Female LCTR1007

URL: <https://www.l-com.com/1-watt-rf-load-up-18-ghz-sma-female-lctr1007-p.aspx>

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. 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	INITIAL RELEASE	02/04/2021
		APPROVED
		SPONG

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
.X ± .2 [5.08] | FRACTIONS ± 1/32
.XX ± .02 [.51] | ANGLES ± 1°
.XXX ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = ± .1 [25] / -0
12 [305] < L ≤ 60 [1524] = ± .2 [51] / -0
60 [1524] < L ≤ 120 [3048] = ± .4 [102] / -0
120 [3048] < L ≤ 300 [7620] = ± .6 [152] / -0
300 [7620] < L = ± .5% L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

an INFINITE brand

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ITEM NO. LCTR1007

SIZE A CAGE CODE DFRISIELLO

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T-Rev: 0