

1 Watt RF Load Up to 18 GHz with SMA Male



LCTR1006

Features

- Frequency range from DC to 18GHz
- Max Power 1W
- Operating temp range from -55 to 125C
- VSWR <1.35:1

Applications

- Coaxial termination
- 50 Ohm applications
- Signal splitters

Description

L-com's LCTR1006 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 male gender. LCTR1006 termination offers 1.35:1 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			1.35:1	
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 Male
Hex Size	5/16 inch

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 Male LCTR1006](#)

1 Watt RF Load Up to 18 GHz with SMA Male



LCTR1006

Material Specifications

Description	Material	Plating
Connector 1 Contact	Brass	Gold
Body	Brass	Nickel
Coupling Nut	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 Male 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 Male LCTR1006

URL: <https://www.l-com.com/1-watt-rf-load-up-18-ghz-sma-male-lctr1006-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.

1 Watt RF Load Up to 18 GHz with SMA Male

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	02/04/2021
		APPROVED SPONG

Side view dimensions:
 Total length: .63 [16.0]
 Distance to hex: .28 [7.0]
 Diameter: Ø.30 [7.5]

Top view dimensions:
 Hex width: .31 [8.0]
 HEX

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	±.8	[203] / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN CONTAINED HEREIN IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

an INFINITE brand

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

ITEM NO. LCTR1006

SIZE A

CAGE CODE DFRSIELLO

DRAWN BY

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

T-Rev: 0