

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



LCTR1173C

Features

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

Applications

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

Description

L-com's LCTR1173C 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 male gender. LCTR1173C 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	0.52 in [13.21 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.085 lbs [38.56 g]

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Configuration

Connector	SMA Male
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
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 Male 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-male-rf-load-18-ghz-lctr1173c-p.aspx>

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LCTR1173C CAD Drawing

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