

## 2 Watt RF Load Up to 12 GHz with 75 Ohm TNC Female Tri-Metal over Copper Plated Brass



### LCTR1193

#### Features

- DC to 12 GHz Frequency Range
- 75 Ohm Impedance
- TNC Female Coaxial Interface
- Max VSWR 1.25:1
- Max Power 2 Watts (CW)

#### Applications

- 8k UHD TV
- Video Distribution
- Test and Measurement

#### Description

L-com's LCTR1193 is an RF termination (also called RF load or dummy load) that operates from DC to 12 GHz and handles up to 2 Watt (CW). Our TNC termination / load has a female gender. LCTR1193 TNC load termination offers 1.25:1 max VSWR. RF load / 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. 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		12	GHz
Impedance		75		Ohms
VSWR, Input			1.25:1	
Input Power (CW)			2	Watts
2W average power from -55°C to +70°C linearly derated to 1W at 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

#### Mechanical Specifications

##### Size

Length	1.34 in [34.04 mm]
Width	0.62 in [15.75 mm]
Height	0.62 in [15.75 mm]
Weight	0.2 lbs [90.72 g]

##### Configuration

Connector	TNC Female
Mating Torque	4.1 to 6.1 in-lbs [0.46 to 0.69 Nm]
Durability	500 Cycles

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Female Tri-Metal over Copper Plated Brass



**LCTR1193**

**Material Specifications**

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	Teflon	
Connector 1 Body	Brass	Tri-Metal over Copper
Coupling Nut	Brass	Tri-Metal over Copper
Housing	Brass	Tri-Metal over Copper

**Environmental Specifications**

**Temperature**

Operating Range

-55 to +165 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:

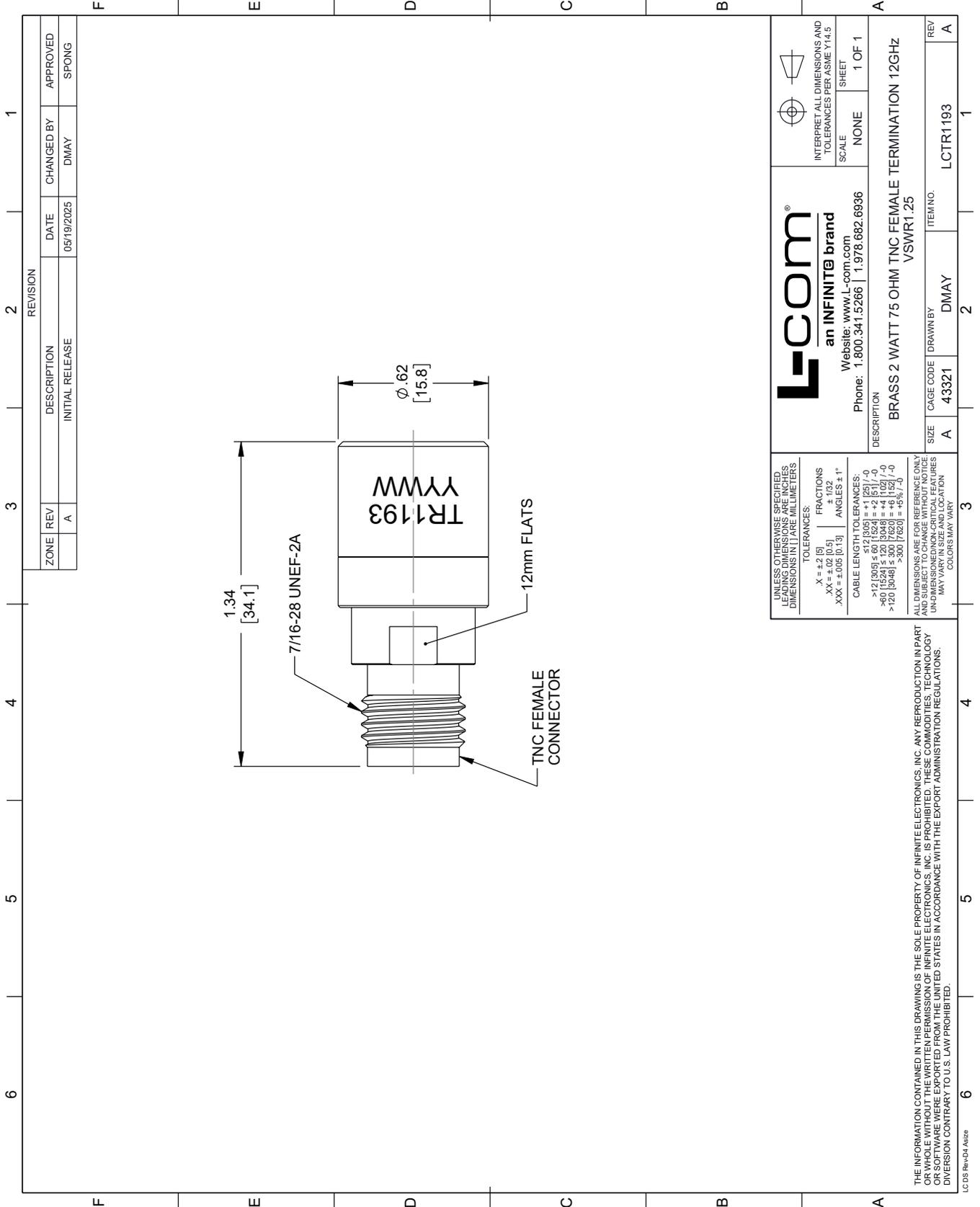
2 Watt RF Load Up to 12 GHz with 75 Ohm TNC Female Tri-Metal over Copper Plated Brass from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/2-watt-rf-load-up-12-ghz-75-ohm-tnc-female-tri-metal-over-copper-plated-brass-lctr1193-p.aspx>

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# LCTR1193 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	INITIAL RELEASE	DMAY	SPONG
	A				

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an INFINITE brand  
Website: www.L-com.com  
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: BRASS 2 WATT 75 OHM TNC FEMALE TERMINATION 12GHZ VSWR1.25

SIZE	A	CAGE CODE	43321	DRAWN BY	DMAY	ITEM NO.	LCTR1193
REV	A						

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

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32  
 ANGLES: ± 1°

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.

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