



Type N F/F In/Out Bulkhead RF Coaxial Surge Protector DC - 2.4GHz DC Pass 50W IP67 18kA Gas Discharge Tube BiDirect

**RF Surge Protectors Technical Data Sheet**

**LCSP1040**

**Features**

- Surge current of 18kA
- Max Power 50W(RMS)
- Frequency range from DC to 2.4GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR <1.28
- CE & RoHS compliant
- Bi-Directional

**Applications**

- WiFi
- GPS
- Land mobile radio

**Description**

RF surge protector (also known as lightning arrester) LCSP1040 from L-COM utilizing a proprietary gas tube surge protection technology protects critical hardware from lightening events while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All L-COM RF surge protector products are available in stock with same day shipping.

**Electrical Specifications**

Surge Protector Type DC Handling Gas Discharge Tube DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.4	GHz
Impedance		50		Ohms
VSWR			1.28:1	
Return Loss			18	dB
Insertion Loss			0.25	dB
Input Power, CW			50	Watts
50W @ 10MHz				
10W @ 2GHz				
Surge Current			18	kAmps
IEC 61000-4-5, 8/20µS WAVEFORM				

**Mechanical Specifications**

**Configuration**

Input Connector N Female  
Output Connector N Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Type N F/F In/Out Bulkhead RF Coaxial Surge Protector DC - 2.4GHz DC Pass 50W IP67 18kA Gas Discharge Tube BiDirect LCSP1040](#)



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**Environmental Specifications**

**Temperature**

Operating Range

-50 to 85 deg C

Ingress Protection (IP) Rating

IP 67

Vibration

1G at 5Hz and 100Hz

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

**Plotted and Other Data**

Notes:

Our portfolio includes cable assemblies, connectors, adapters and custom products, as well as their wireless product line which includes antennas, RF amplifiers, coaxial lightning and surge protectors, and NEMA rated enclosures.

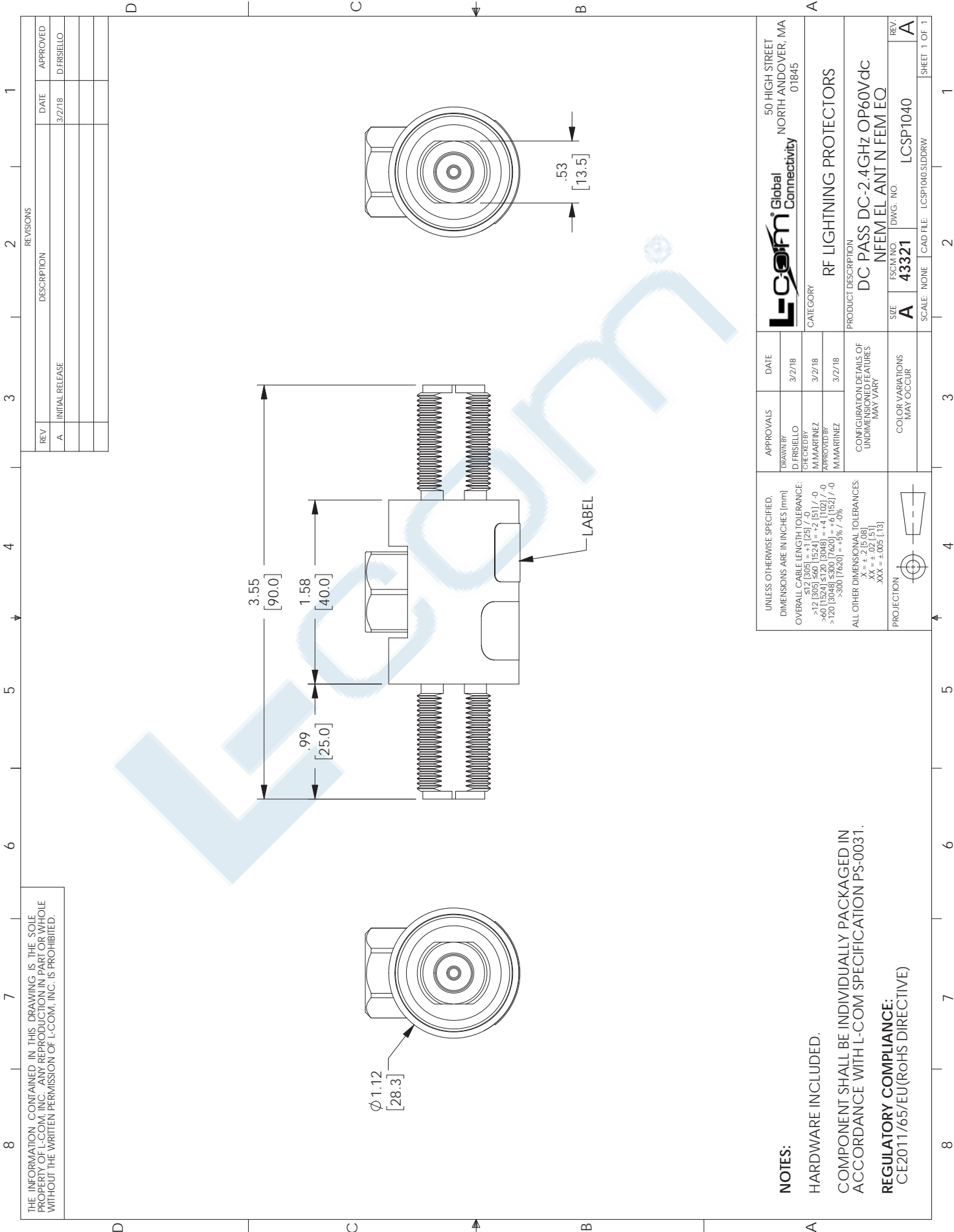
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URL:

The information contained in 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 any liability arising out of the use of any part or documentation.

# LCSP1040 CAD Drawing

Type N F/F In/Out Bulkhead RF Coaxial Surge Protector DC - 2.4GHz  
DC Pass 50W IP67 18kA Gas Discharge Tube BiDirect



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<b>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (mm)</b> OVERBALL CABLE LENGTH TOLERANCE: ≤12 (305) = +1 (25) / -0 >12 (305) ≤60 (1524) = +2 (51) / -0 >60 (1524) ≤120 (3048) = +4 (102) / -0 >120 (3048) ≤240 (6096) = +6 (152) / -0 >240 (6096) = -5% / -0 ALL OTHER DIMENSIONAL TOLERANCES: XX = ±.001 (0.025) X = ±.002 (0.051) XXX = ±.005 (0.127)		APPROVALS DRAWN BY: D. FRISIELLO CHECKED BY: M. MARINEZ APPROVED BY: M. MARINEZ	DATE 3/2/18 3/2/18 3/2/18	L-com Global Connectivity 50 HIGH STREET NORTH ANDOVER, MA 01845
REV. A INITIAL RELEASE	DESCRIPTION RF LIGHTNING PROTECTORS	DATE 3/2/18	CATEGORY DC PASS DC-2.4GHZ OP60Vdc N FEMEL ANT N FEM EQ	
COLOR VARIATIONS MAY OCCUR	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY	SIZE A	PRODUCT DESCRIPTION DC PASS DC-2.4GHZ OP60Vdc N FEMEL ANT N FEM EQ	
PROJECTION 	COLOR VARIATIONS MAY OCCUR	FSCM NO. 43321	DWG. NO. LCSP1040	
PROJECT PROJECT NO. XXX	COLOR VARIATIONS MAY OCCUR	SCALE: NONE	CAD FILE: LCSP1040.SLDDRW	

**NOTES:**  
 HARDWARE INCLUDED.  
 COMPONENT SHALL BE INDIVIDUALLY PACKAGED IN ACCORDANCE WITH L-COM SPECIFICATION PS-0031.  
**REGULATORY COMPLIANCE:**  
 CE2011/65/EU (RoHS DIRECTIVE)