



Type N F/F In/Out Bulkhead RF Coaxial Surge Protector 1.5MHz - 700MHz DC Block 3kW 20kA Blocking Cap and Gas Tube

RF Surge Protectors Technical Data Sheet

LCSP1030

Features

- Surge current of 50kA
- Max Power 3kW
- Frequency range from 1.5 MHz to 700 MHz
- N Female to N Female connectors
- VSWR 1.1:1
- Multi-strike capability
- CE & RoHS compliant

Applications

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

Description

RF surge protector (also known as lightning arrester) LCSP1030 from L-COM utilizing a proprietary surge protection technology protects critical hardware from lightning events while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. Optional weather proofing kit and copper cleaning kit are available for purchase separately. All L-COM RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Surge Protector Type Blocking Cap and Gas Tube
DC Handling DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.5		700	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Return Loss			26	dB
Insertion Loss			0.1	dB
Input Power, CW			3	kWatts
3kW @ 1.5MHz TO 50MHz 500W @ 50MHz TO 220MHz 250W @ 220MHz TO 700MHz				
Surge Current			20	kAmps
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		1,200 ±20 %		Volts
Throughput Energy			20	µJ

Mechanical Specifications

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 1.5MHz - 700MHz DC Block 3kW 20kA Blocking Cap and Gas Tube LCSP1030](#)



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Configuration

Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature

Operating Range	-50 to 50 deg C
Storage Range	-55 to +85 deg C

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.

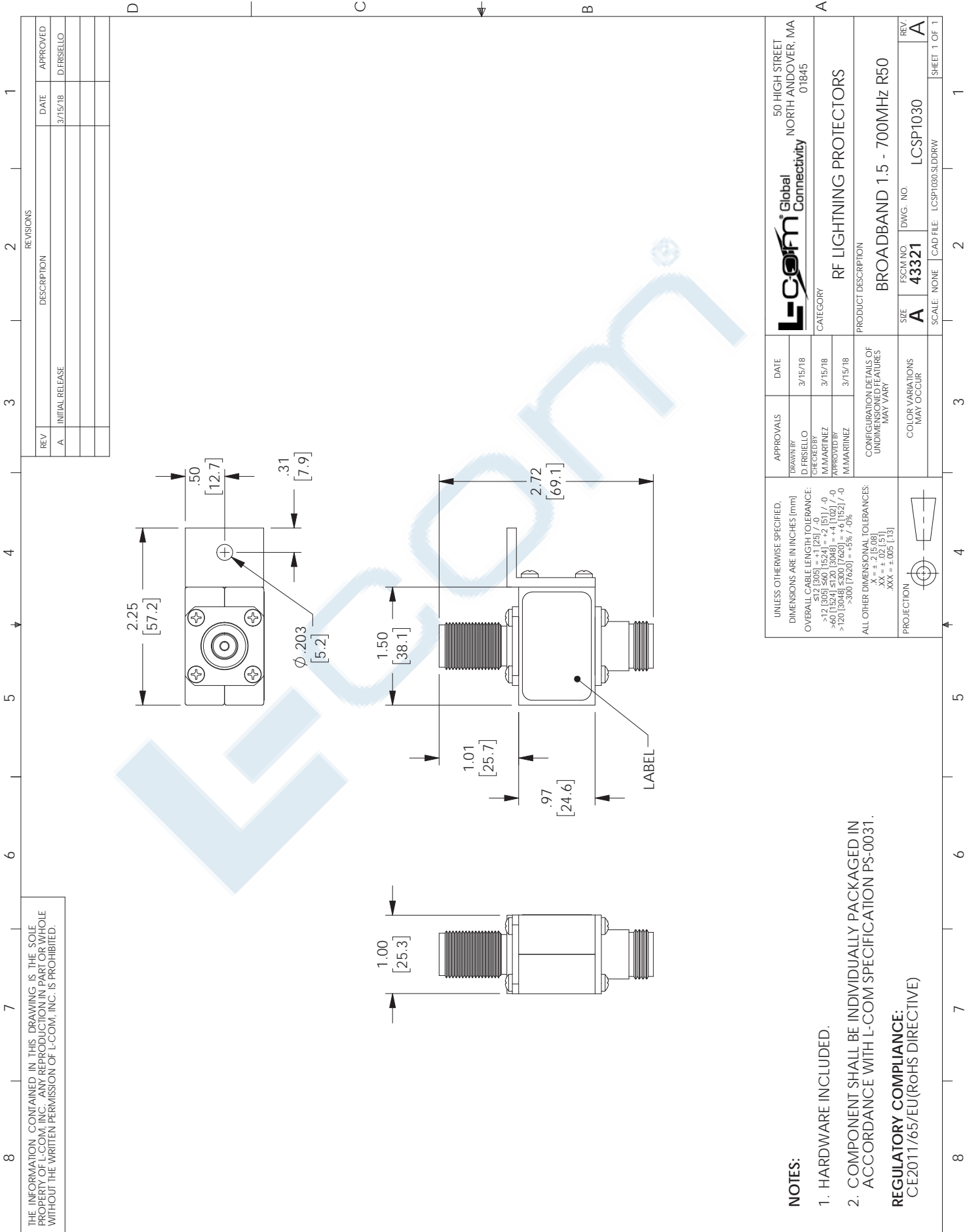
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URL:

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.

LCSP1030 CAD Drawing

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/15/18	D. FRISIELLO

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (mm)	APPROVALS	DATE	L-com Global Connectivity 50 HIGH STREET NORTH ANDOVER, MA 01845
	DRAWN BY D. FRISIELLO	3/15/18	
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) ≤300 (7620) = +8 (203) / -0	CHECKED BY M. MARINEZ	3/15/18	CATEGORY RF LIGHTNING PROTECTORS
ALL OTHER DIMENSIONAL TOLERANCES: X = ±.001 (0.025) XX = ±.002 (0.051) XXX = ±.005 (0.127)	APPROVED BY M. MARINEZ	3/15/18	
PROJECTION	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		PRODUCT DESCRIPTION BROADBAND 1.5 - 700MHZ R50
COLOR VARIATIONS MAY OCCUR	SIZE	FSCM NO	REV.
	A	43321	A
SCALE: NONE		CAD FILE: LCSP1030.SLDTRW	SHEET 1 OF 1

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