



Type N F/F In/Out Bulkhead RF Coaxial Surge Protector 1.5MHz - 700MHz DC Block 500W 50kA Blocking Cap and Gas Tube

RF Surge Protectors Technical Data Sheet

LCSP1027

Features

- Surge current of 50kA
- Max Power 500W
- Frequency range from 1.5 MHz to 700 MHz
- N Female to N Female connectors
- VSWR 1.1:1
- Multi-strike capability
- Nuclear EMP protection
- CE & RoHS compliant

Applications

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

Description

RF surge protector (also known as lightning arrester) LCSP1027 from L-COM utilizing a proprietary 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. 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
DC Handling

Blocking Cap and Gas Tube
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			500	Watts
500W @ HF Band				
200W @ VHF Band				
100W @ UHF Band				
Surge Current			50	kAmps
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		330 ±20 %		Volts

Mechanical Specifications

Configuration
Input 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 1.5MHz - 700MHz DC Block 500W 50kA Blocking Cap and Gas Tube LCSP1027](#)



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Output Connector

N Female

Environmental Specifications

Temperature

Operating Range

-45 to 50 deg C

Storage Range

-45 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.

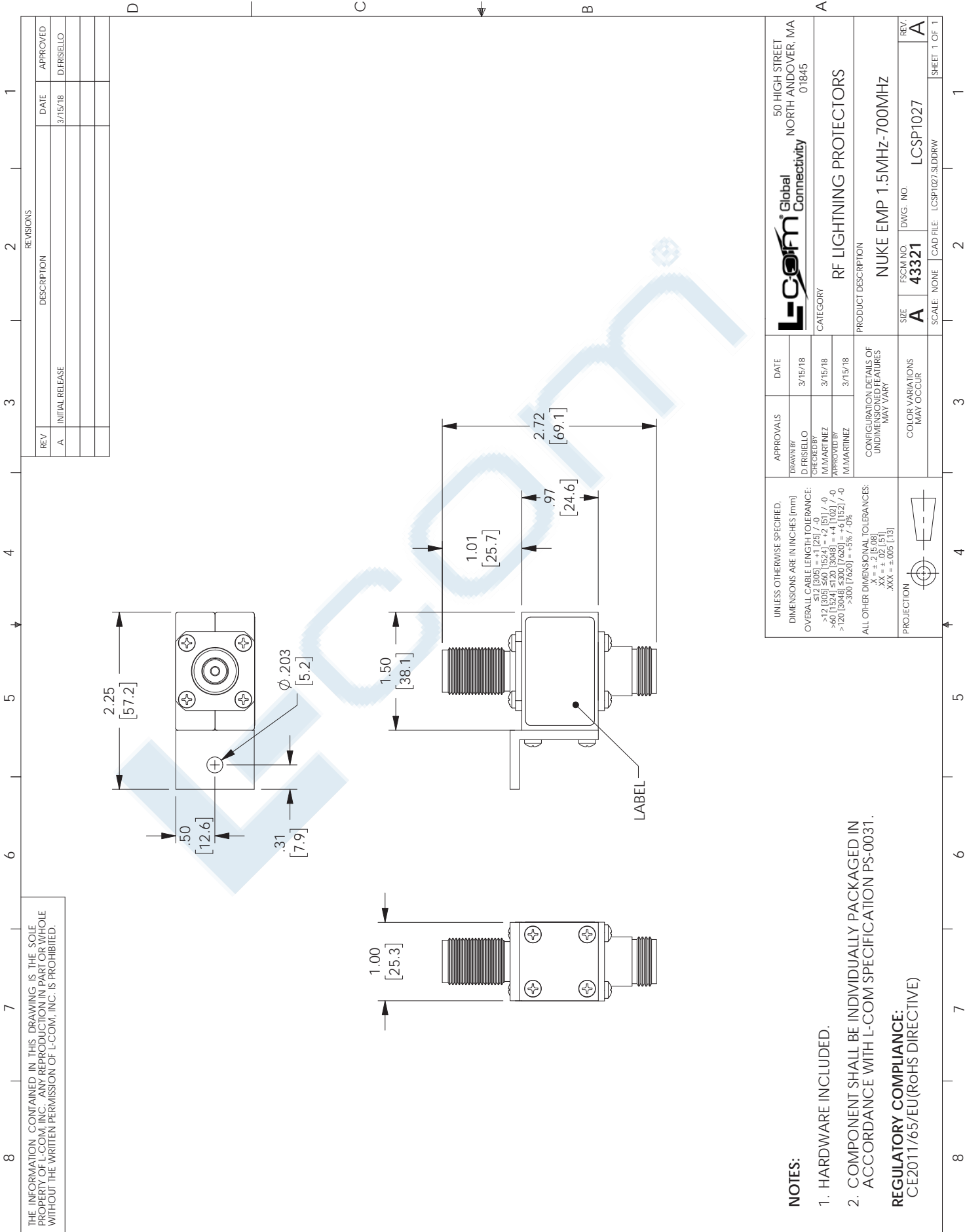
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URL:

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.

LCSP1027 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): OVERBALL CABLE LENGTH TOLERANCE: ≤12 (305) ≤60 (1524) = +2 (51) / -0 >12 (305) ≤60 (1524) = +4 (102) / -0 >60 (1524) ≤120 (3048) = +4 (102) / -0 >120 (3048) ≤240 (6096) = +4 (102) / -0 >240 (6096) ≤300 (7620) = -5% / +0%	APPROVALS	DATE	L-com Global Connectivity 50 HIGH STREET NORTH ANDOVER, MA 01845
	DRAWN BY D. FRISIELLO	3/15/18	
ALL OTHER DIMENSIONAL TOLERANCES: XX = ±.001 (0.025) X = ±.002 (0.051) XXX = ±.005 (0.127)	CHECKED BY M. MARINEZ	3/15/18	CATEGORY RF LIGHTNING PROTECTORS
	APPROVED BY M. MARINEZ	3/15/18	
PROJECTION	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY	PRODUCT DESCRIPTION NUKE EMP 1.5MHZ-700MHZ	
COLOR VARIATIONS MAY OCCUR	SIZE A	FSCM NO. 43321	DWG. NO. LCSP1027
SCALE: NONE	CAD FILE: LCSP1027.SLDDRW	REV. A	

- 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)