



Type N F/F In/Out Bulkhead RF Coaxial Surge Protector 125MHz - 1GHz DC Block 200W None 50kA Blocking Cap and Gas Tube

RF Surge Protectors Technical Data Sheet

LCSP1029

Features

- Surge current of 50kA
- Max Power 200W
- Frequency range from 125 MHz to 1000 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) LCSP1029 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	125		1,000	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Return Loss			26	dB
Insertion Loss			0.1	dB
Input Power, CW			200	Watts
200W @ 125MHz TO 220MHz				
100W @ 220MHz TO 700MHz				
50W @ 700MHz TO 1000MHz				
Surge Current			50	kA
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		330±20 %		Volts
Throughput Energy			250	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 125MHz - 1GHz DC Block 200W None 50kA Blocking Cap and Gas Tube LCSP1029](#)



an INFINIT® brand



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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

Ingress Protection (IP) Rating	None
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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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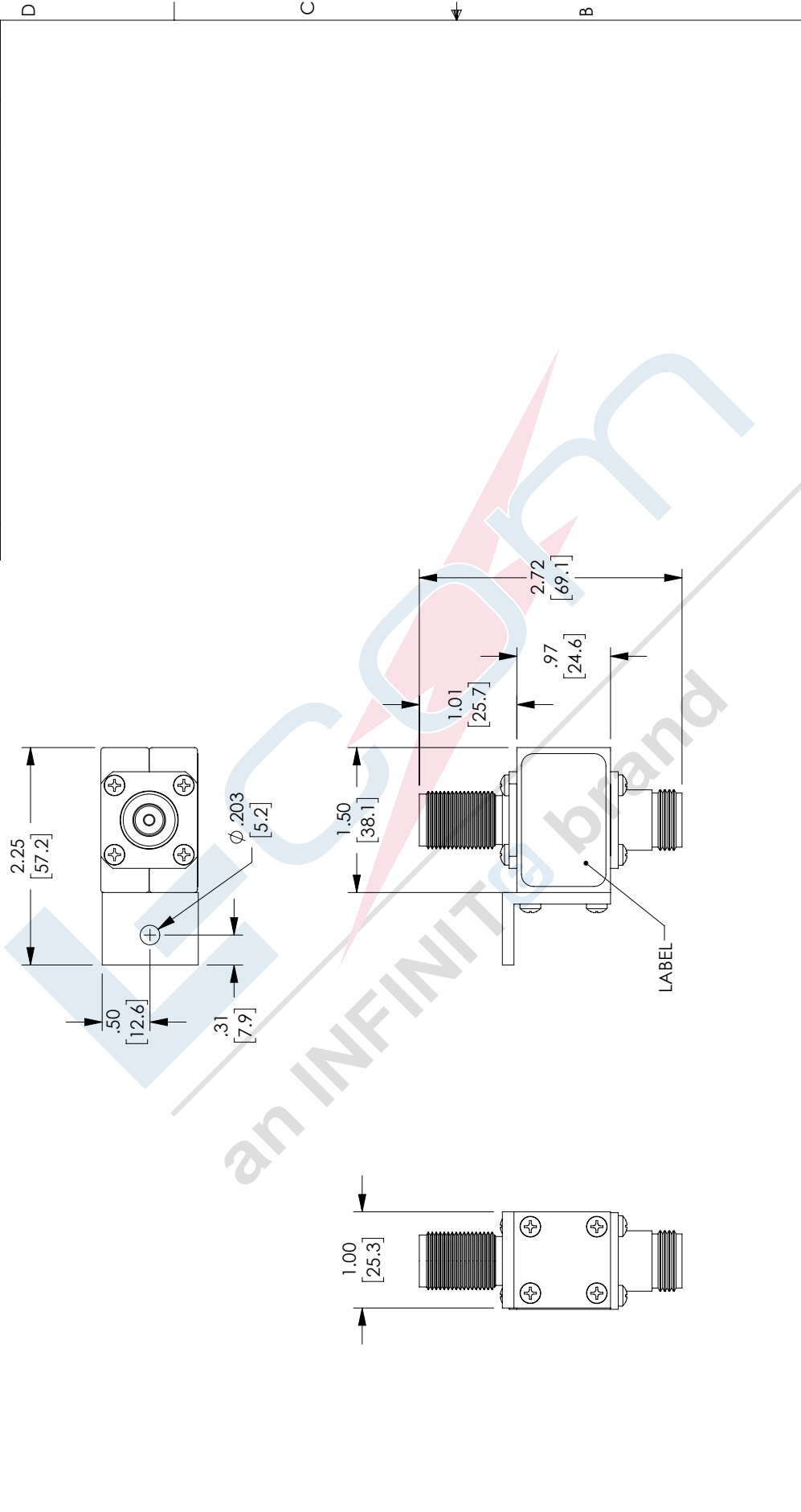
URL: <https://www.l-com.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-?LCSP1029-p.aspx>

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.

LCSP1029 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] OVERALL CABLE LENGTH TOLERANCE: $\le 12 (305) = +1 (25) / -0$ $>12 (305) \le 60 (1524) = +2 (51) / -0$ $>60 (1524) \le 120 (3048) = +4 (102) / -0$ $>120 (3048) \le 240 (6096) = +8 (203) / -0$ $>240 (6096) \le 480 (12192) = +16 (406) / -0$ $>480 (12192) = \pm 0.5\% / -0\%$	APPROVALS	DATE	L-com Global Connectivity 50 HIGH STREET NORTH ANDOVER, MA 01845
	DRAWN BY D.FRISIELLO	3/15/18	
ALL OTHER DIMENSIONAL TOLERANCES: $X = \pm 0.010 [0.254]$ $XX = \pm 0.005 [0.127]$ $XXX = \pm 0.005 [0.127]$	CHECKED BY M.MARTINEZ	3/15/18	CATEGORY RF LIGHTNING PROTECTORS
PROJECTION	APPROVED BY M.MARTINEZ	3/15/18	PRODUCT DESCRIPTION NUKE EMP 125MHz - 1000MHz
COLOR VARIATIONS MAY OCCUR	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		SIZE A
	DWG. NO. LCSP1029		REV. A
SCALE: NONE		CAD FILE: LCSP1029.SLDDRW	SHEET 1 OF 1

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