



# Type N F/F In/Out Bulkhead RF Coaxial Surge Protector DC - 3GHz DC Pass 40W IP67 40kA Gas Discharge Tube BiDirect

# **RF Surge Protectors Technical Data Sheet**

LCSP1039

### **Features**

- · Surge current of 40kA
- Max Power 40W(RMS)
- Frequency range from DC to 3GHz
- N-type female connectors
- · Waterproof IP67 rated

- DC Pass
- VSWR <1.2</li>
- · CE & RoHS compliant
- Bi-Directional

## **Applications**

WiFi

GPS

· Land mobile radio

### Description

RF surge protector (also known as lightning arrester) LCSP1039 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

| <b>Description</b> Minimu     |    | Typical   | Maximum | Units |  |
|-------------------------------|----|-----------|---------|-------|--|
| Frequency Range               | DC |           | 3       | GHz   |  |
| Impedance                     |    | 50        |         | Ohms  |  |
| VSWR                          |    |           | 1.2:1   |       |  |
| Return Loss                   |    |           | 26      | dB    |  |
| Insertion Loss                |    |           | 0.26    | dB    |  |
| Input Power, CW               |    |           | 40      | Watts |  |
| 40W @ 30MHz                   |    |           |         |       |  |
| Surge Current                 |    |           | 40      | kAmps |  |
| IEC 61000-4-5 8/20µs WAVEFORM | M  |           |         | ·     |  |
| Turn On Voltage               |    | 150 ±20 % |         | Volts |  |
| Throughput Energy             |    |           | 500     | μJ    |  |
| 8/20µsec 4kA SURGE PULSE      |    |           |         |       |  |

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 - 3GHz DC Pass 40W IP67 40kA Gas Discharge Tube BiDirect LCSP1039





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#### Specifications by Frequency

| Description         | F1      | F2     | F3 | F4 | F5 | Units |
|---------------------|---------|--------|----|----|----|-------|
| Frequency Range     | DC to 1 | 1 to 3 |    |    |    | GHz   |
| VSWR, Typ           | 1.1:1   | 1.2:1  |    |    |    |       |
| Insertion Loss, Max | 0.1     | 0.25   |    |    |    | dB    |
|                     |         |        |    |    |    |       |

### **Mechanical Specifications**

Configuration

Input Connector N Female
Output Connector N Female

**Environmental Specifications** 

**Temperature** 

Operating Range -55 to 85 deg C Ingress Protection (IP) Rating IP 67

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:

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LCSP1039 CAD Drawing
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