

Type N F/F Bulkhead Coaxial RF Surge Protector, 1.8GHz - 6GHz, DC Block, 10W, IP67, .5uJ, 18kA, Filter



LSXL

Features

- Surge current of 18kA
- Max Power 10W
- Frequency range from 1.8 to 6 GHz
- Waterproof IP67 rated
- N-type Female connectors
- DC Block
- VSWR <1.3:1
- Low insertion loss
- CE & RoHS compliant
- Directional

Applications

- Cellular communication systems
- Public safety systems
- Emergency response systems
- Industrial

Description

RF surge protector (also known as lightning arrester) LSXL from PolyPhaser utilizing a patented spiral inductor design enables an almost instantaneous response to a lightning surge to protect critical hardware while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Description	Surge Protector Type DC Handling		Surge Filter DC Block		Units
	Minimum	Typical	Maximum		
Frequency Range	1.8		6		GHz
Impedance		50			Ohms
Input Power, CW			10		Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM			18		kA
Throughput Energy FOR 3kA @8/20µs WAVEFORM			500		nJ

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	1.8 to 3.8		4.2 to 6			GHz
VSWR, Typ	1.2:1		1.2:1			
VSWR, Max	1.3:1		1.3:1			
Insertion Loss, Max	0.2		0.2			dB

Mechanical Specifications

Size

Length	3.5 in [88.9 mm]
Width/Diameter	1.12 in [28.45 mm]
Weight	0.35 lbs [158.76 g]

Configuration

Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Ingress Protection (IP) Rating	IP67
Vibration	1G @ 5Hz to 100Hz

Compliance Certifications

RoHS
CE

Plotted and Other Data

Notes:

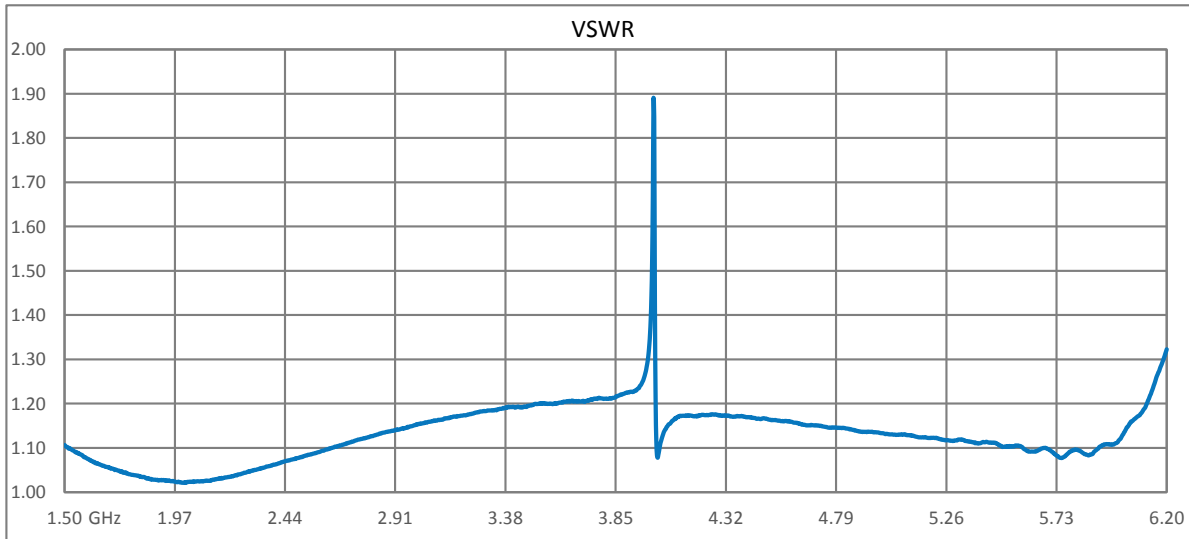
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Typical Performance Data

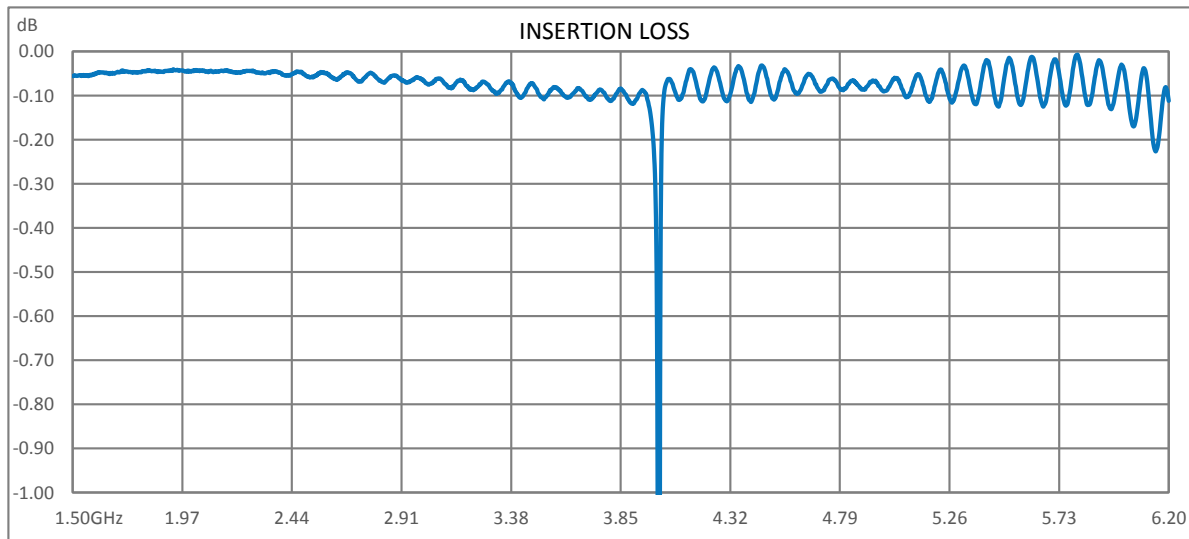


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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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. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

LSXL CAD Drawing

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	NUT 5/8-24 303 HEX SS
1	WASHER 5/8 410 SS
1	SILICONE O-RING 019

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 FRACTIONS: ± 1/32 .XX± .03
 ANGLES: ± 1° .XXX± .010

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THIRD-ANGLE PROJECTION

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PolyPhaser
 1.8-3.8GHz & 4.2-6.0GHz
 MICROWAVE FILTER

SIZE: A CAGE: 30992 PROD CAT: RFP DRAWING NUMBER: LSXL REV: A

SHEET 1 of 1
 SCALE 1:1