

Type N F/F Bulkhead Coaxial RF Surge Protector, 2GHz - 6GHz, DC Block, 10W, IP67, .5uJ, 10kA, Filter



## AL-LSXM

### Features

- Surge current up to 10kA
- Max Power 10W
- Frequency range from 2GHz to 6GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Block
- VSWR <1.3:1
- Multi-strike capability
- CE & RoHS compliant

### Applications

- WiFi
- Cellular communication systems

### Description

RF surge protector (also known as lightning arrester) AL-LSXM 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

Surge Protector Type  
DC Handling

Surge Filter  
DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		6	GHz
Impedance		50		Ohms
VSWR		1.2:1	1.3:1	
Insertion Loss		0.1	0.2	dB
Passive Intermodulation		-167	-155	dBc
Input Power, CW			10	Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM			10	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:  
[Type N F/F Bulkhead Coaxial RF Surge Protector, 2GHz - 6GHz, DC Block, 10W, IP67, .5uJ, 10kA, Filter AL-LSXM](#)

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## AL-LSXM

### Mechanical Specifications

#### Size

Length	2.72 in [69.09 mm]
Width/Diameter	0.73 in [18.54 mm]
Weight	0.15031 lbs [68.18 g]

#### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

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

### Compliance Certifications

RoHS Compliant	Yes
CE Compliant	Yes

### Plotted and Other Data

Notes:

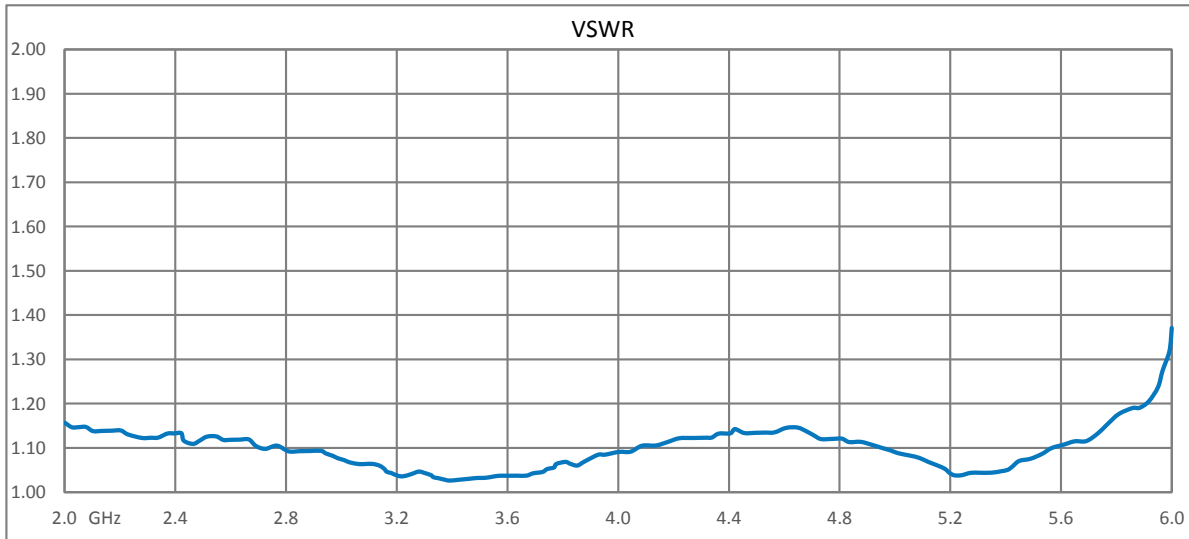
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## AL-LSXM

### Typical Performance Data

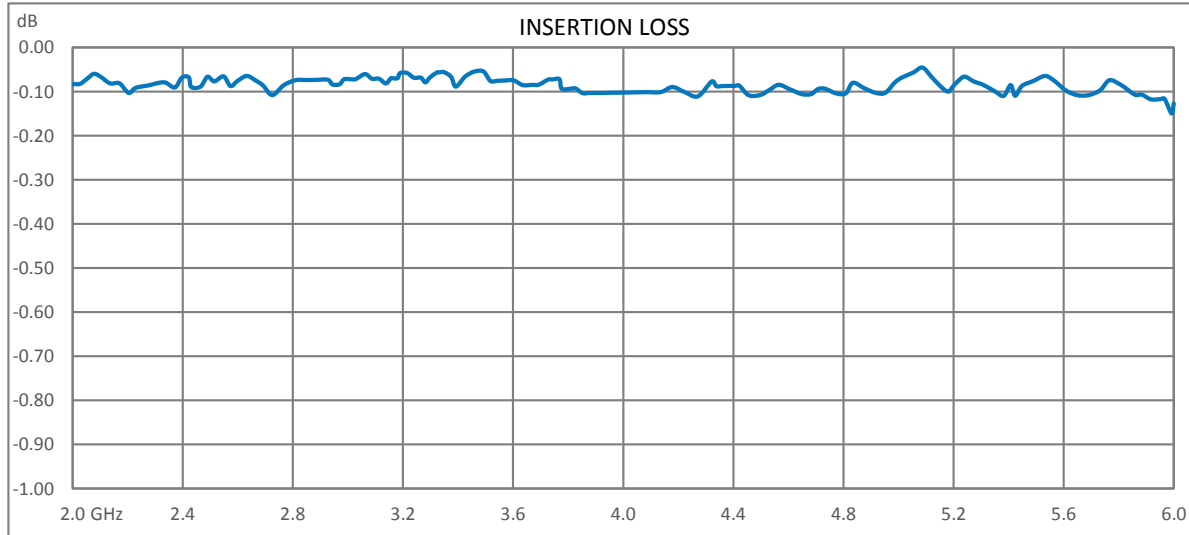


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## AL-LSXM



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.

AL-LSXM CAD Drawing

5/8-24 UNEF-2A N FEMALE CONNECTOR

5/8-24 UNEF-2A N FEMALE CONNECTOR

ELONGATED N FEMALE CONNECTOR

2.72 [69.1]

1.04 [26.3]

$\phi .73 [18.5]$

.53 [13.5]

**Hardware Kit Includes:**

QTY	DESCRIPTION
1	NUT 5/8-24 303 HEX SS
1	WASHER 5/8 410 SS
1	RING TERM 5/8" STUD 6AWG

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**PolyPhaser**

LOOP FILTER  
2-6GHz 10W

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES: FRACTIONS: 1/32 .XX± .03 ANGLES: 1° .XXX± .010  
THIRD-ANGLE PROJECTION

SIZE	CAGE	PROD CAT	DRAWING NUMBER	REV
A	30992	RFP	AL-LSXM	A

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