

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
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

Mechanical Specifications

Size

Length

2.72 in [69.09 mm]

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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Width/Diameter 0.73 in [18.54 mm]

Configuration

Input Connector N Female
Output Connector N Female

Environmental Specifications

Temperature

Operating Range -40 to 85 deg C

Ingress Protection (IP) Rating IP67

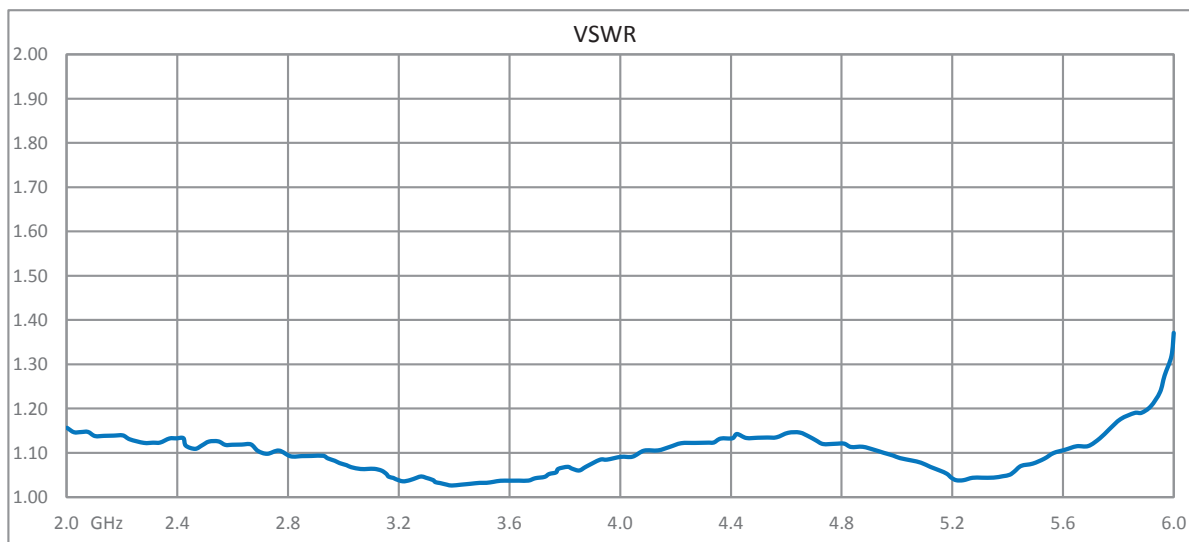
Vibration 1G @ 5Hz to 100Hz

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



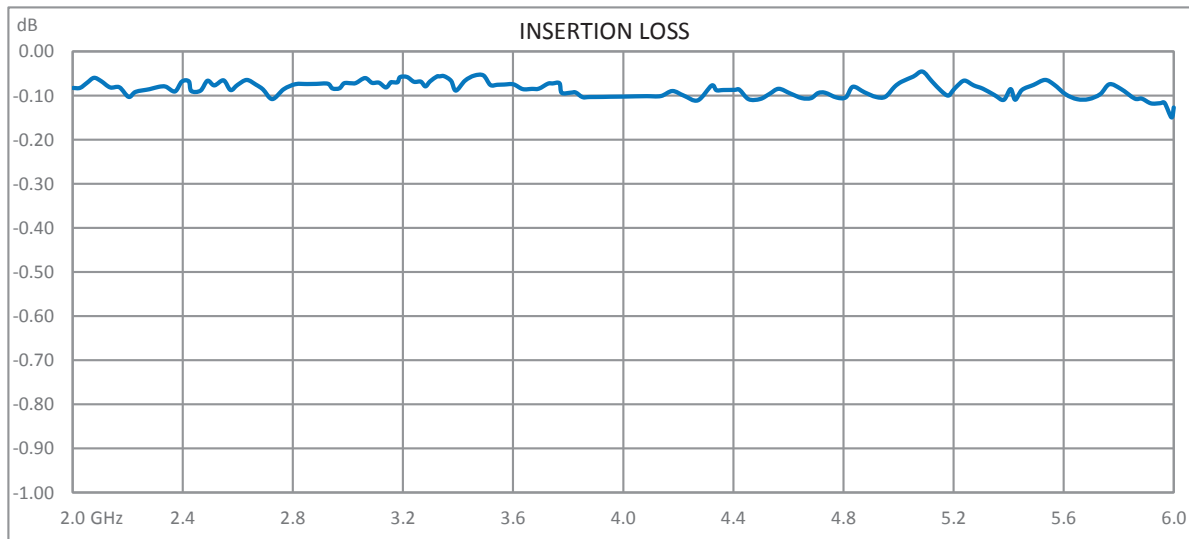
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AL-LSXM



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.

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](https://www.polyphaser.com/type-n-surge-protector-6ghz-filter-al-lsxm)

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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]

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

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

HARDWARE KIT INCLUDES:

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