



RF Surge Protector, Type SMA F/M, DC - 6GHz

RF Surge Protectors Technical Data Sheet

AL6-SMSFBW-9

Features

- Broadband Performance from DC to 5.8GHz
- Repetitive Lightning Strike Capability
- Bi-directional Protection
- Replaceable Gas Tube for Installation Longevity
- Robust Brass Construction

Applications

- Cellular
- Land Mobile Radio, VHF/UHF
- Wireless LAN
- Wireless Cable (MMDS)
- GPS

Description

RF surge protector (also known as lightning arrester) AL6-SMSFBW-9 from L-com utilizing a gas discharge tube design 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. L-com RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Surge Protector Type		Gas Discharge Tube		
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
VSWR			1.5:1	
Insertion Loss			0.6	dB
Operating Voltage (DC)			60	Volts
Surge Current			10	kA
Turn On Voltage		90		Volts

Mechanical Specifications

Size

Length	2.1 in [53.34 mm]
Width/Diameter	0.9 in [22.86 mm]
Height	1.2 in [30.48 mm]
Weight	0.25 lbs [113.4 g]
Housing Material and Plating	Brass, Tri-Metal

Configuration

Input Connector	SMA Female
Output Connector	SMA Male

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RF Surge Protector, Type SMA F/M, DC - 6GHz AL6-SMSFBW-9](#)



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Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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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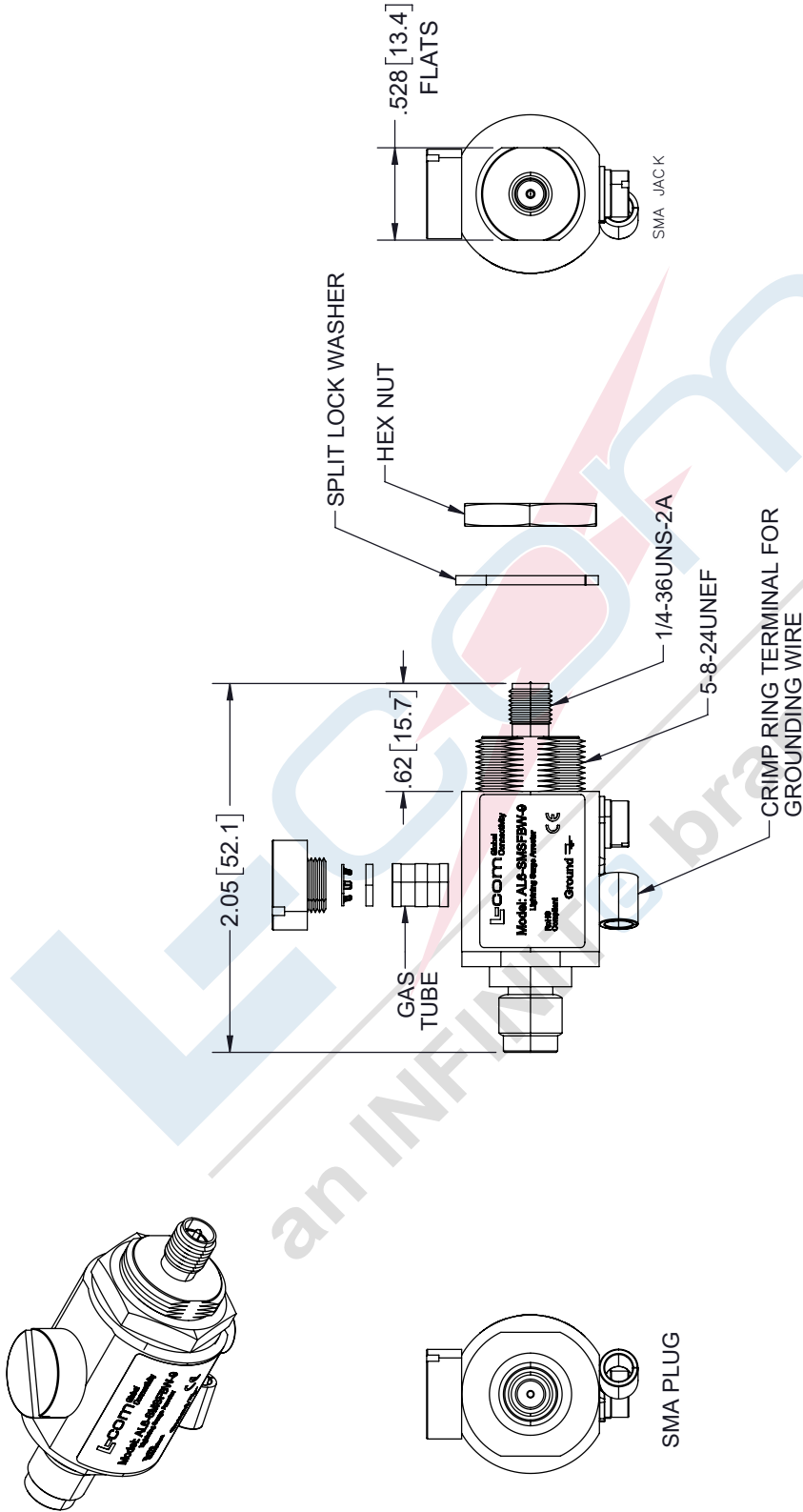
URL: <https://www.l-com.com/sma-surge-protector-5.8ghz-gas-discharge-tube-al6-smsfbw-9-p.aspx>

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.

AL6-SMSFBW-9 CAD Drawing

RF Surge Protector, Type SMA F/M, DC - 6GHz

REVISIONS			
REV.	DESCRIPTION	ECN	DATE
A	PRODUCTION RELEASE		4/28/20
			APPROVED DWR



<p>L-com an INFINITe brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE 1:1</p>
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5.08] FRACTIONS XX = ±.02 [.51] +.132 XXX = ±.005 [.13] ANGLES ± 1°</p> <p>CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +6% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>ITEM NO. AL6-SMSFBW-9</p> <p>REV A</p>
<p>SIZE A</p> <p>CAGE CODE 43321</p> <p>DRAWN BY DPM</p>	<p>REV A</p>

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