

Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter

RF surge protector (also known as lightning arrester) FMSP1000 from Fairview Microwave 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 Fairview Microwave 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
	Min	Typ	Max		
Frequency Range	0.698		2.7		GHz
Impedance		50			Ohms
VSWR				1.1:1	
Return Loss				26	dB
Insertion Loss				0.1	dB
Input Power, CW 500W @ 920MHz 750W @ 50°C				500	Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM				40	kA
Throughput Energy FOR 3kA @ 8/20µs WAVEFORM				0.01	nJ

Mechanical Specifications

Configuration

Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature

Operating Range	-50 to 85 deg C
Ingress Protection (IP) Rating	IP 67
Vibration	1G @ 5Hz to 100Hz

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

Plotted and Other Data

Notes:



Features:

- Surge current of 40kA
- Max Power 500W
- Frequency range from 698 MHz to 2.7 GHz
- Waterproof IP67 rated
- N-type female connectors
- DC Block
- VSWR <1.1:1
- Low insertion loss
- CE & RoHS compliant
- Bi-Directional

Applications:

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

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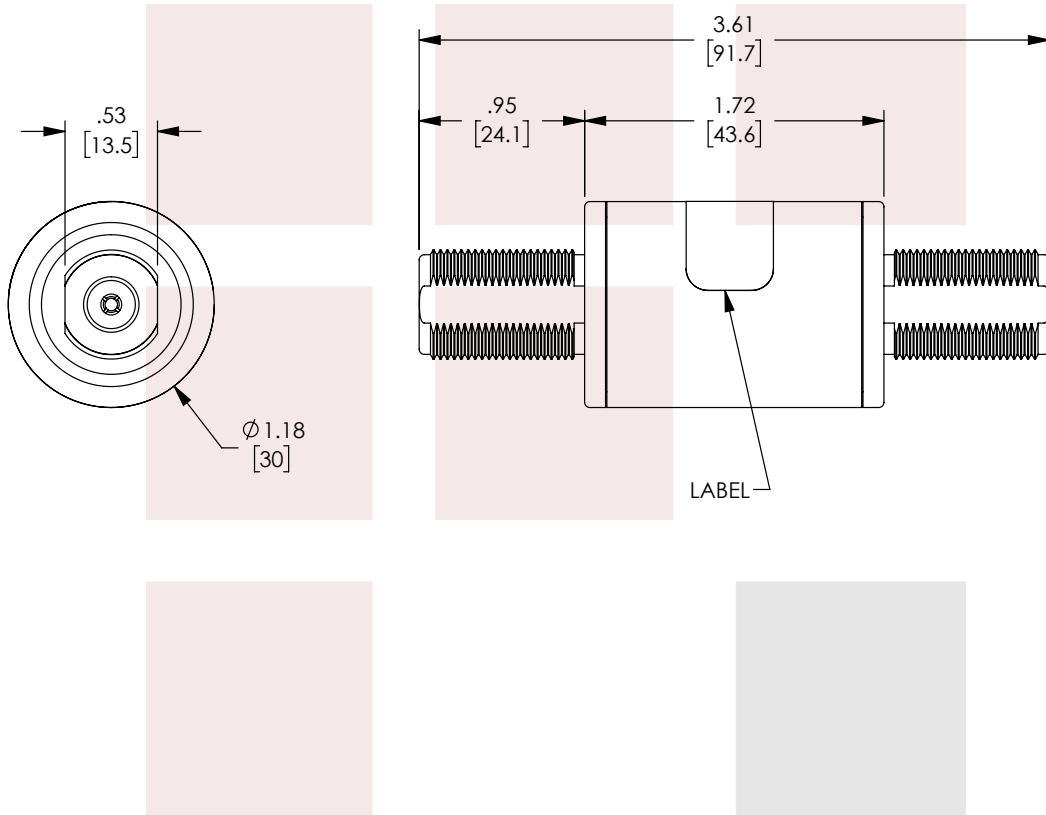
Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter FMSP1000](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-2.7ghz-filter-fmsp1000-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





NOTES:

HARDWARE INCLUDED.

REGULATORY COMPLIANCE:

CE2011/65/EU(RoHS DIRECTIVE)

STANDARD TOLERANCES

.X ±0.2
 .XX ±0.01
 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

Fairview Microwave RF COMPONENTS ON DEMAND. <i>Done!</i>	DWG NO FMSP1000		CAGE CODE 3FKR5			
	CAD FILE MMDYY	SHEET 1 OF 1	SCALE N/A	SIZE A	NADF	
TITLE Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter						