

**Type N F/M In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter, Low PIM -155 dBc**

RF surge protector (also known as lightning arrester) FMSP1003 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**

Surge Protector Type  
DC Handling

Surge Filter  
DC Block

Description	Min	Typ	Max	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
VSWR			1.1:1	
Return Loss			26	dB
Insertion Loss			0.1	dB
Passive Intermodulation			-155	dBc
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 Male

**Environmental Specifications**

**Temperature**

Operating Range -50 to 85 deg C  
Ingress Protection (IP) Rating IP 67

**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 connector to N-type male connector
- DC Block
- Low PIM
- 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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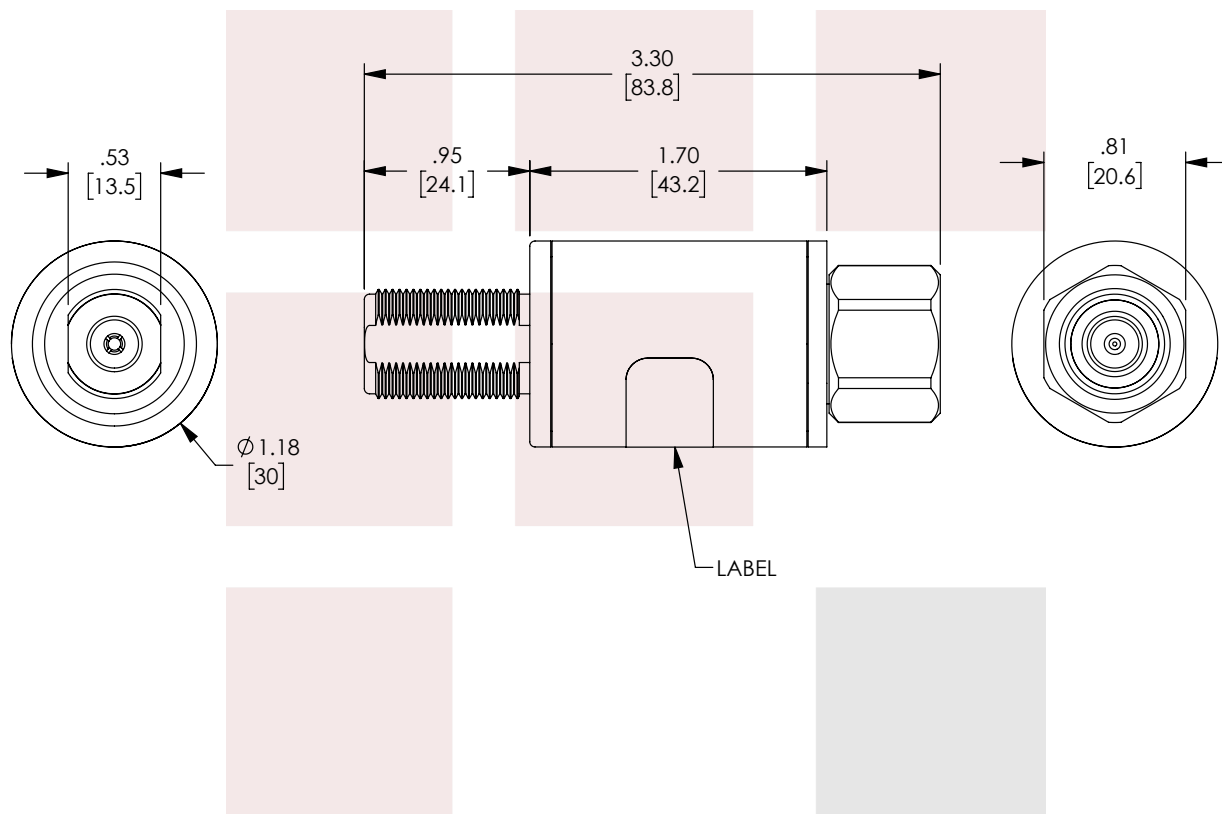
Type N F/M In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter, Low PIM -155 dBc from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Type N F/M In/Out Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, 40kA, Filter, Low PIM -155 dBc FMSP1003](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-2.7ghz-filter-fmsp1003-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.





**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**NOTES:**

HARDWARE INCLUDED.

**REGULATORY COMPLIANCE:**

CE2011/65/EU(RoHS DIRECTIVE)

**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].

**TITLE**

Type N F/M In/Out Bulkhead Coaxial RF Surge  
Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67,  
40kA, Filter, Low PIM -155 dBc

**DWG NO**

FMSP1003

**CAGE CODE**

3FKR5

**CAD FILE**

02/28/18

**SHEET**

1 OF 1

**SCALE**

N/A

**SIZE**

A NADF