

**Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 1.8GHz - 6GHz, DC Block, 10W, IP67, 18kA, Filter**

RF surge protector (also known as lightning arrester) FMSP1050 from Fairview Microwave utilizing a patented DC shorted filter 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		Surge Filter		Units
	DC Handling	Min	Typ	Max	
Frequency Range	1.8			6	GHz
Impedance			50		Ohms
VSWR			1.2:1	1.3:1	
Return Loss			20		dB
Insertion Loss			0.1	0.2	dB
Input Power, CW				10	Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM				18	kA
Throughput Energy FOR 3kA @8/20µs WAVEFORM				0.5	nJ

Electrical Specification Notes:  
 \*Electrical specifications only guaranteed over frequency ranges 1.8 to 3.8 GHz and 4.2 to 6 GHz.

**Mechanical Specifications**

Configuration	
Input Connector	N Female
Output Connector	N Female

**Environmental Specifications**

Temperature	
Operating Range	-40 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 up to 18kA
- Max Power 10W
- Frequency range from 1.8 GHz to 3.8 GHz and 4.2 GHz to 6 GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Block
- VSWR <1.3:1
- Multi-strike capability
- CE & RoHS compliant

**Applications:**

- WiFi
- Cellular communication systems

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

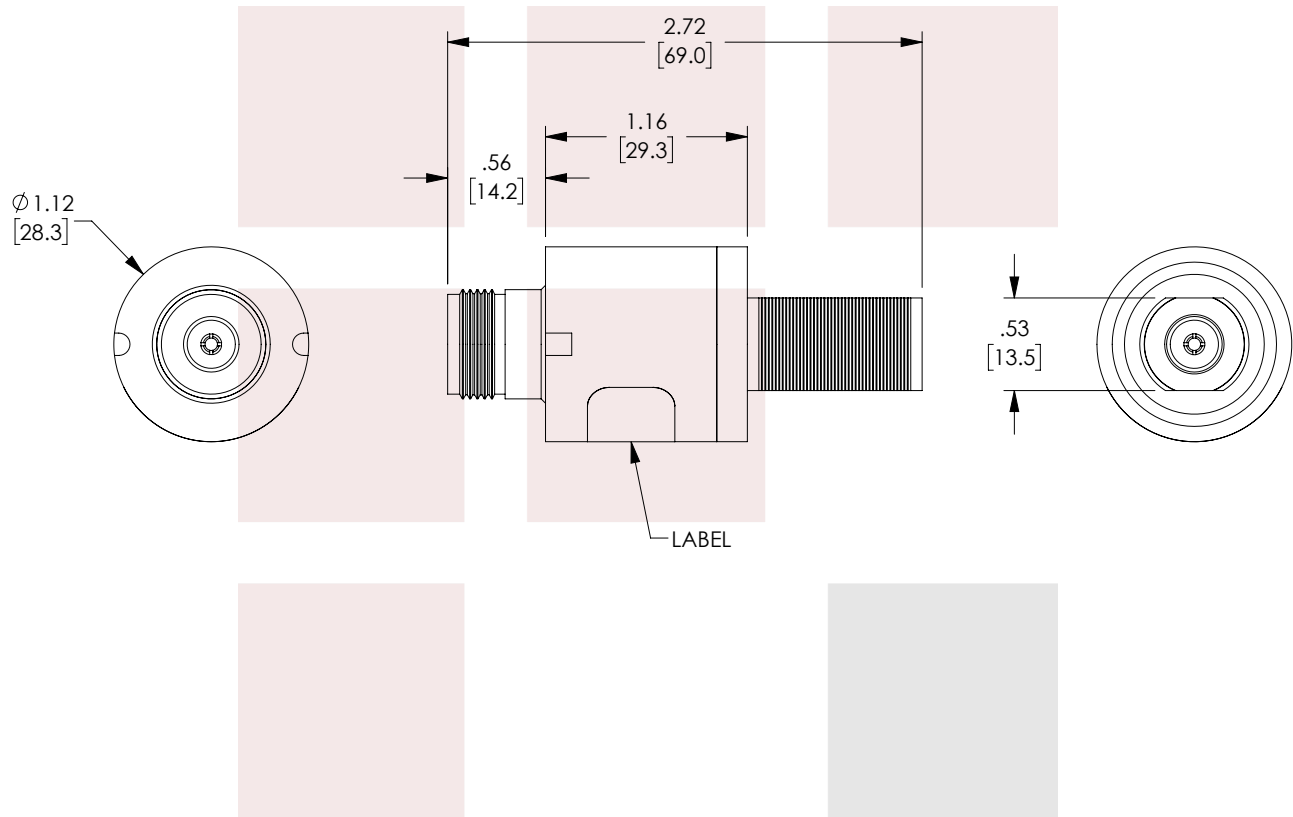
Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 1.8GHz - 6GHz, DC Block, 10W, IP67, 18kA, Filter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview 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, 1.8GHz - 6GHz, DC Block, 10W, IP67, 18kA, Filter FMSP1050](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-6ghz-filter-fmsp1050-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)HARDWARE

		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].				
<b>TITLE</b> Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 1.8GHz - 6GHz, DC Block, 10W, IP67, 18kA, Filter		<b>DWG NO</b> FMSP1050			<b>CAGE CODE</b> 3FKR5	
<b>CAD FILE</b> 3/1/18	<b>SHEET</b> 1 OF 1	<b>SCALE</b> N/A	<b>SIZE</b> A	<b>XXXX</b>		