

**Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, DC - 2.4GHz, DC Pass, 50W, IP67, 18kA, Gas Discharge Tube**

RF surge protector (also known as lightning arrester) FMSP1040 from Fairview Microwave utilizing a proprietary gas tube surge protection technology protects critical hardware from lightening events 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	Gas Discharge Tube			
DC Handling	DC Pass			
Description	Min	Typ	Max	Units
Frequency Range	DC		2.4	GHz
Impedance		50		Ohms
VSWR			1.28:1	
Return Loss			18	dB
Insertion Loss			0.25	dB
Input Power, CW			50	Watts
50W @ 10MHz				
10W @ 2GHz				
Surge Current			18	kA
IEC 61000-4-5, 8/20μS WAVEFORM				

**Mechanical Specifications**

Weight	0.288 lbs [130.63 g]
<b>Configuration</b>	
Input Connector	N Female
Output Connector	N Female

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-50 to 85 deg C
Ingress Protection (IP) Rating	IP 67
Vibration	1G at 5Hz and 100Hz

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

**Plotted and Other Data**

Notes:



**Features:**

- Surge current of 18kA
- Max Power 50W(RMS)
- Frequency range from DC to 2.4GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR <1.28
- CE & RoHS compliant
- Bi-Directional

**Applications:**

- WiFi
- GPS
- Land mobile radio

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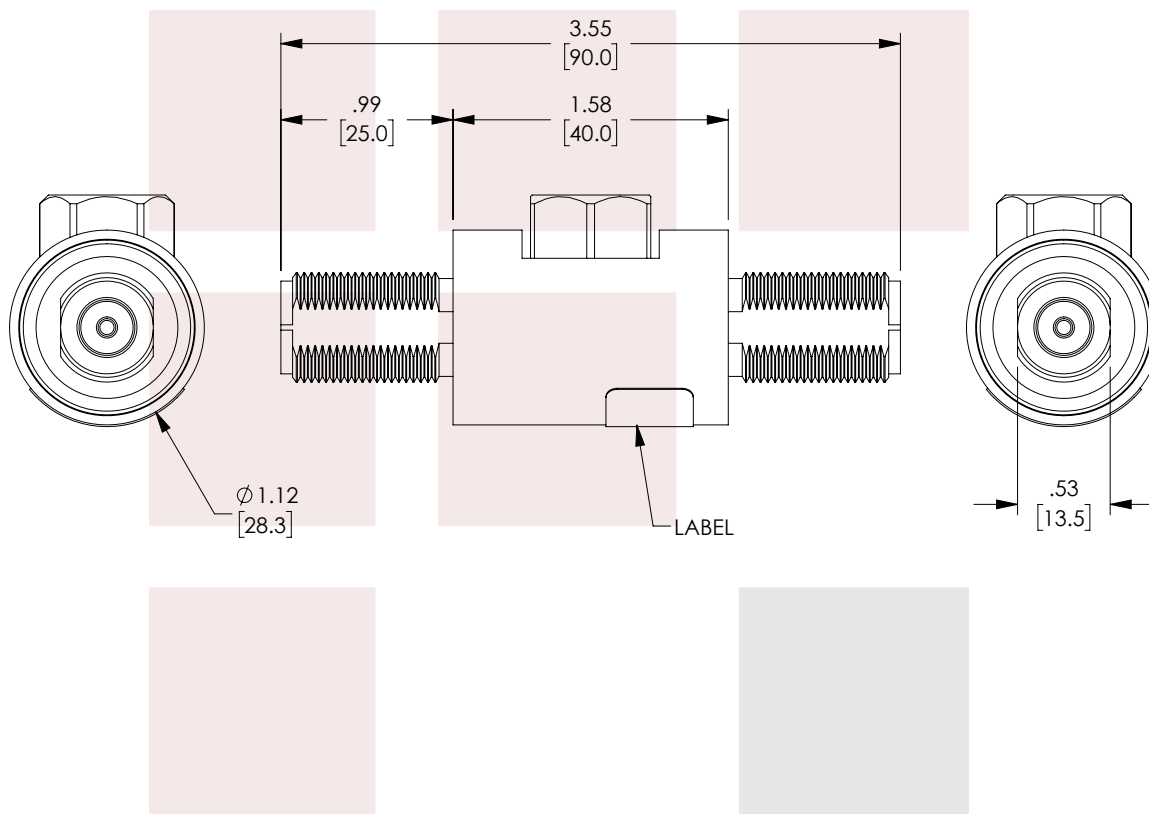
Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, DC - 2.4GHz, DC Pass, 50W, IP67, 18kA, Gas Discharge Tube from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. 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, DC - 2.4GHz, DC Pass, 50W, IP67, 18kA, Gas Discharge Tube FMSP1040](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-2.4ghz-gas-discharge-tube-fmsp1040-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/F In/Out Bulkhead Coaxial RF Surge  
Protector, DC - 2.4GHz, DC Pass, 50W, IP67, 18kA,  
Gas Discharge Tube

**DWG NO**

FMSP1040

**CAGE CODE**

3FKR5

**CAD FILE**

3/2/18

**SHEET**

1 OF 1

**SCALE**

N/A

**SIZE**

A XXXX