

**Type N F/F In/Out Coaxial RF Surge Protector, 400MHz - 1.2GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body**

RF surge protector (also known as lightning arrester) FMSP1019 from Fairview Microwave, utilizing a patented hybrid protection technology integrating a silicon avalanche suppression diode (SASD) and a MOV and gas tube, enables a quick 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 Hybrid  
DC Handling DC Pass

Description	Min	Typ	Max	Units
Frequency Range	0.4		1.2	GHz
Impedance		50		Ohms
VSWR			1.1:1	
Return Loss			26	dB
Insertion Loss			0.1	dB
Input Power, CW			300	Watts
Surge Current IEC 61000-4-5 8/20µs Waveform			20	kA
Turn On Voltage		16.5		Volts
Throughput Energy for 3kA @ 8/20µs Waveform			500	µJ

**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

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

**Plotted and Other Data**

Notes:



**Features:**

- Surge current of 20kA
- Max Power 300W
- Frequency range from 400 MHz to 1.2 GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR <1.1:1
- Low insertion loss
- CE & RoHS compliant

**Applications:**

- GPS systems
- Active antenna systems

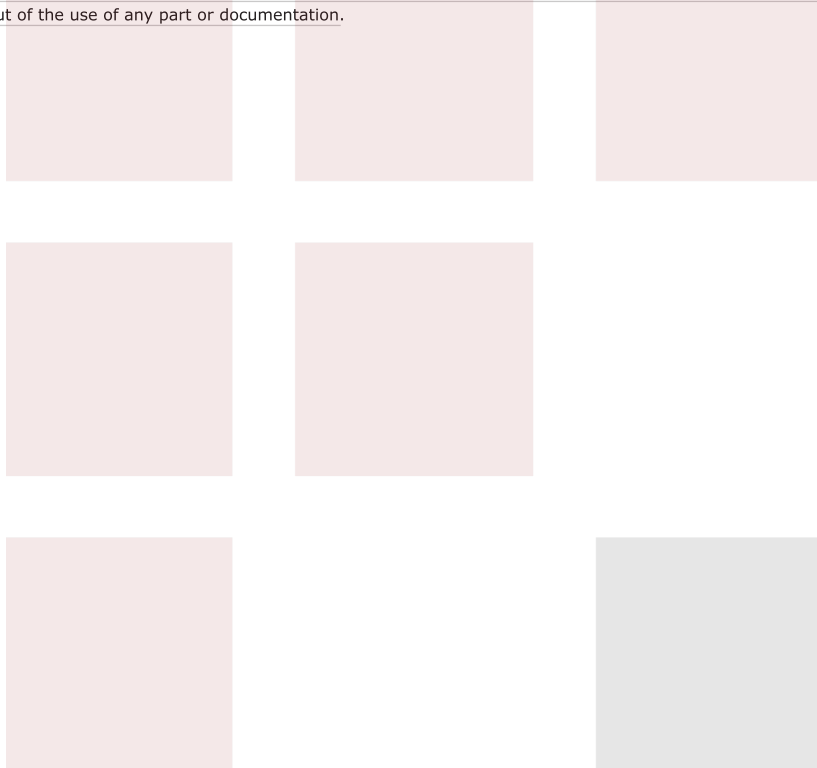
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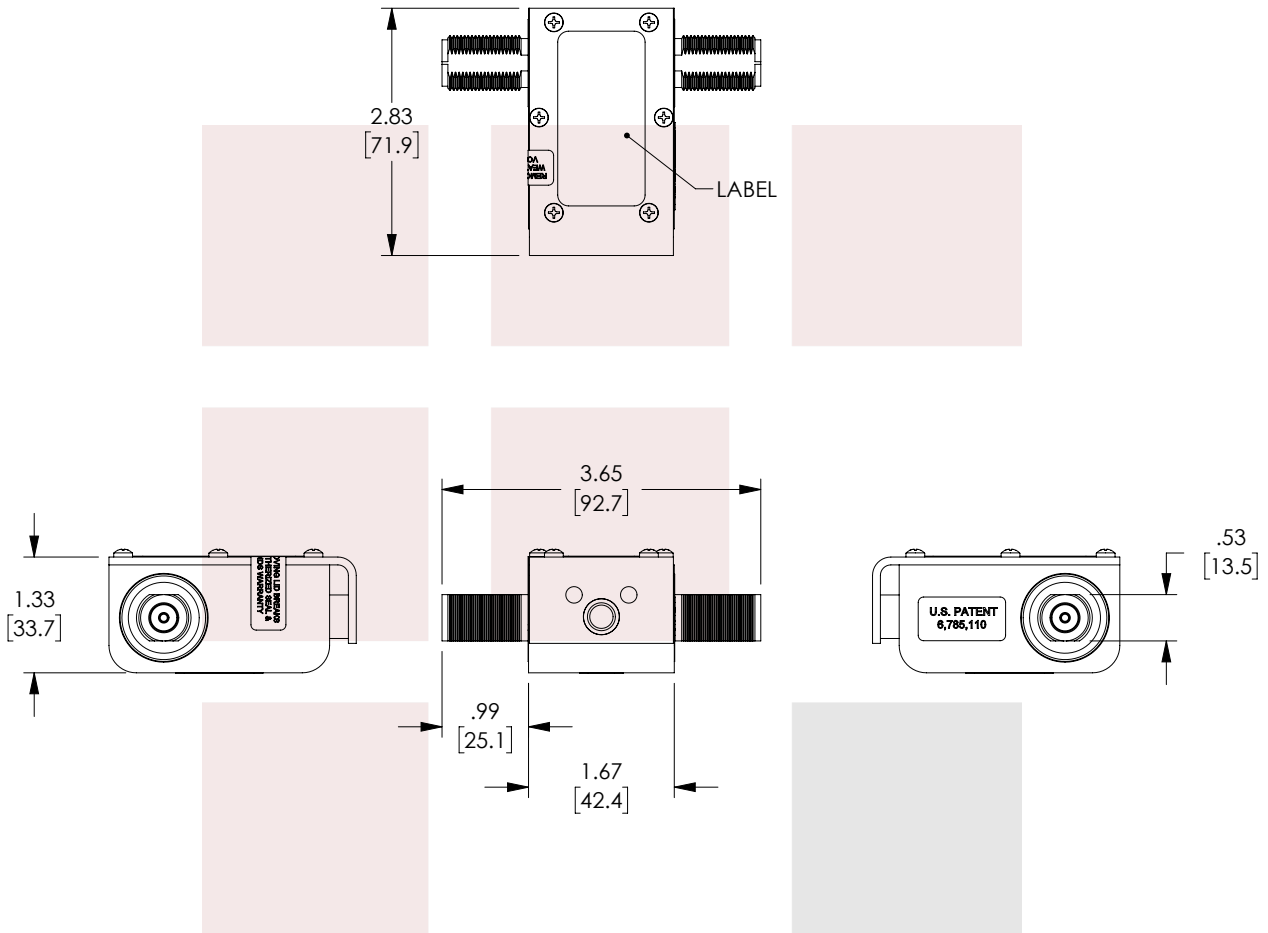
Type N F/F In/Out Coaxial RF Surge Protector, 400MHz - 1.2GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Type N F/F In/Out Coaxial RF Surge Protector, 400MHz - 1.2GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body FMSP1019](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-1.2ghz-hybrid-fmsp1019-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

<p><b>Fairview Microwave</b>          RF COMPONENTS ON DEMAND. <i>Done!</i></p>		<p>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].</p>		
		<p>TITLE          Type N F/F In/Out Coaxial RF Surge Protector, 400MHz - 1.2GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body</p>	<p>DWG NO  <b>FMSP1019</b></p>	<p>CAGE CODE  <b>3FKR5</b></p>
<p>CAD FILE 3/9/18</p>	<p>SHEET 1 OF 1</p>	<p>SCALE N/A</p>	<p>SIZE A</p>	<p>XXXX</p>