

Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube

RF surge protector (also known as lightning arrester) FMSP1038 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

Description	Surge Protector Type			Units
	Min	Typ	Max	
DC Handling	Gas Discharge Tube DC Pass			
Frequency Range	DC		7	GHz
Impedance		50		Ohms
VSWR		1.4:1	1.4:1	
Insertion Loss		0.35		dB
Input Power, CW			90	Watts
90W @ 30MHz				
9W @ 3GHz				
Surge Current			20	kA
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		300		Volts
Sparkover Impulse Voltage		500		Volts
500 Volts @ 1000V/µs				
Sparkover Voltage (DC)		300 ±20%		Volts
Holdover Voltage		80		Volts
80 Volts @ <150ms				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6.5	6.5 to 7		GHz
VSWR, Max	1.1:1	1.2:1	1.4:1	1.6:1		
IL, Max	0.1	0.25	0.35	0.6		dB

Mechanical Specifications

Size	
Length	4.65 in [118.11 mm]
Width/Diameter	2.25 in [57.15 mm]
Height	2.2 in [55.88 mm]
Weight	0.165 lbs [74.84 g]



Features:

- Surge current of 20kA
- Max Power 90W(RMS)
- Frequency range from DC to 7GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR 1.4 typ
- CE & RoHS compliant
- Bi-Directional

Applications:

- WiFi
- GPS
- Land mobile radio

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Configuration

Input Connector N Female
Output Connector N Female

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C
Ingress Protection (IP) Rating IP 67

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

Plotted and Other Data

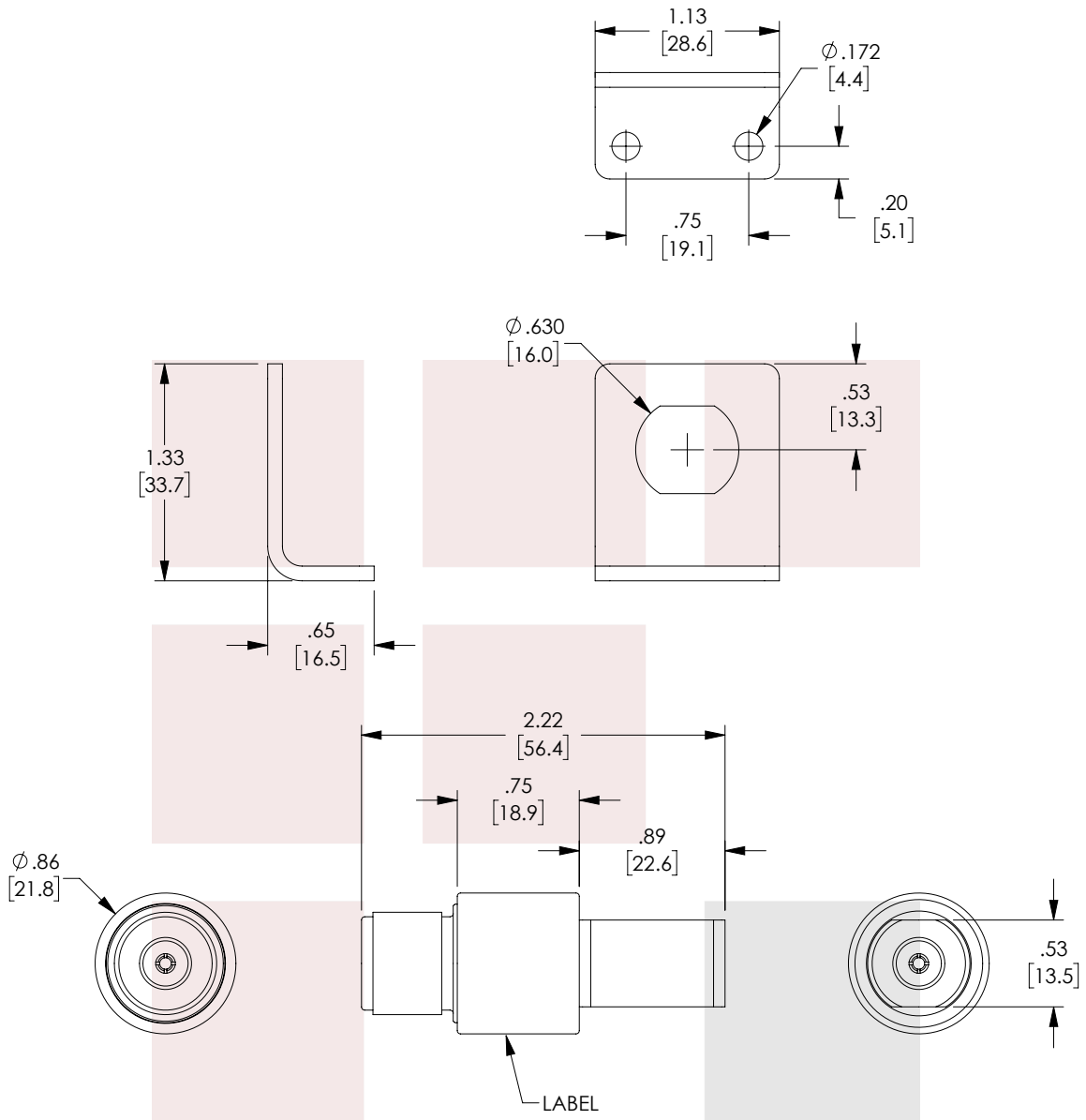
Notes:

Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, 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 Lewisville, 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 - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube FMSP1038](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-7ghz-4ghz-gas-discharge-tube-fmsp1038-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:
BRACKET AND HARDWARE INCLUDED.

REGULATORY COMPLIANCE:
CE2011/65/EU(RoHS DIRECTIVE)

 <p>Fairview Microwave 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>							
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	CAD FILE	3/2/18	SHEET	1 OF 1	SCALE	N/A	SIZE	A XXX