

Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 1.5MHz - 700MHz, DC Block, 3kW, 20kA, Blocking Cap and Gas Tube

RF surge protector (also known as lightning arrester) FMSP1030 from Fairview Microwave utilizing a proprietary 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. Optional weather proofing kit and copper cleaning kit are available for purchase separately. All Fairview Microwave RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Surge Protector Type
DC Handling

Blocking Cap and Gas Tube
DC Block

Description	Min	Typ	Max	Units
Frequency Range	1.5		700	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Return Loss			26	dB
Insertion Loss			0.1	dB
Input Power, CW 3kW @ 1.5MHz TO 50MHz 500W @ 50MHz TO 220MHz 250W @ 220MHz TO 700MHz			3	kWatts
Surge Current IEC 61000-4-5 8/20μs WAVEFORM			20	kA
Turn On Voltage		1,200 ±20 %		Volts
Throughput Energy			20	uJ

Mechanical Specifications

Configuration

Input Connector
Output Connector

N Female
N Female

Environmental Specifications

Temperature

Operating Range
Storage Range

-50 to 50 deg C
-55 to +85 deg C

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

Plotted and Other Data

Notes:



Features:

- Surge current of 50kA
- Max Power 3kW
- Frequency range from 1.5 MHz to 700 MHz
- N Female to N Female connectors
- VSWR 1.1:1
- Multi-strike capability
- CE & RoHS compliant

Applications:

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

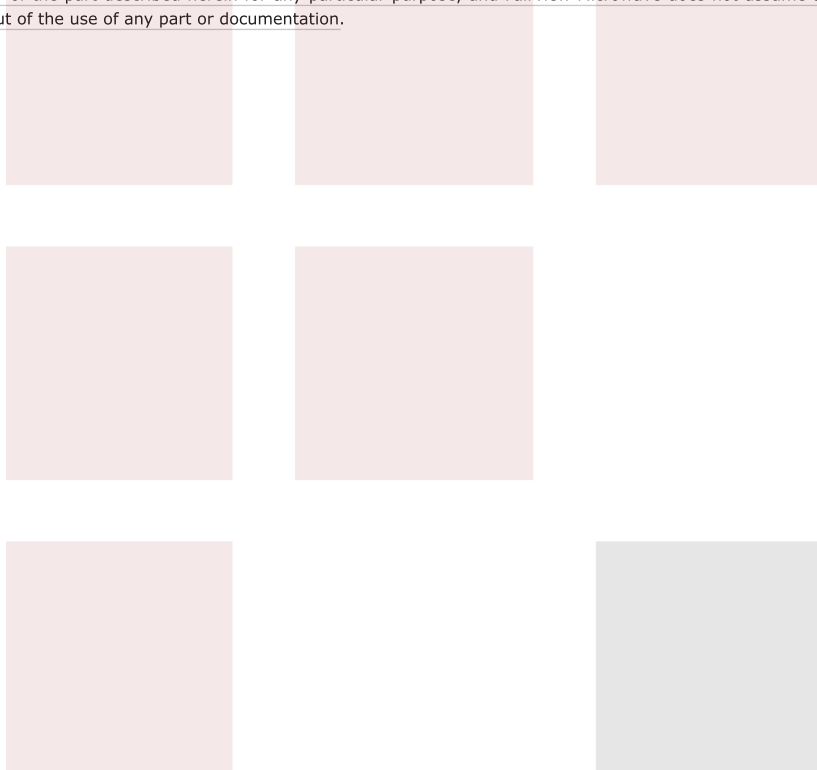
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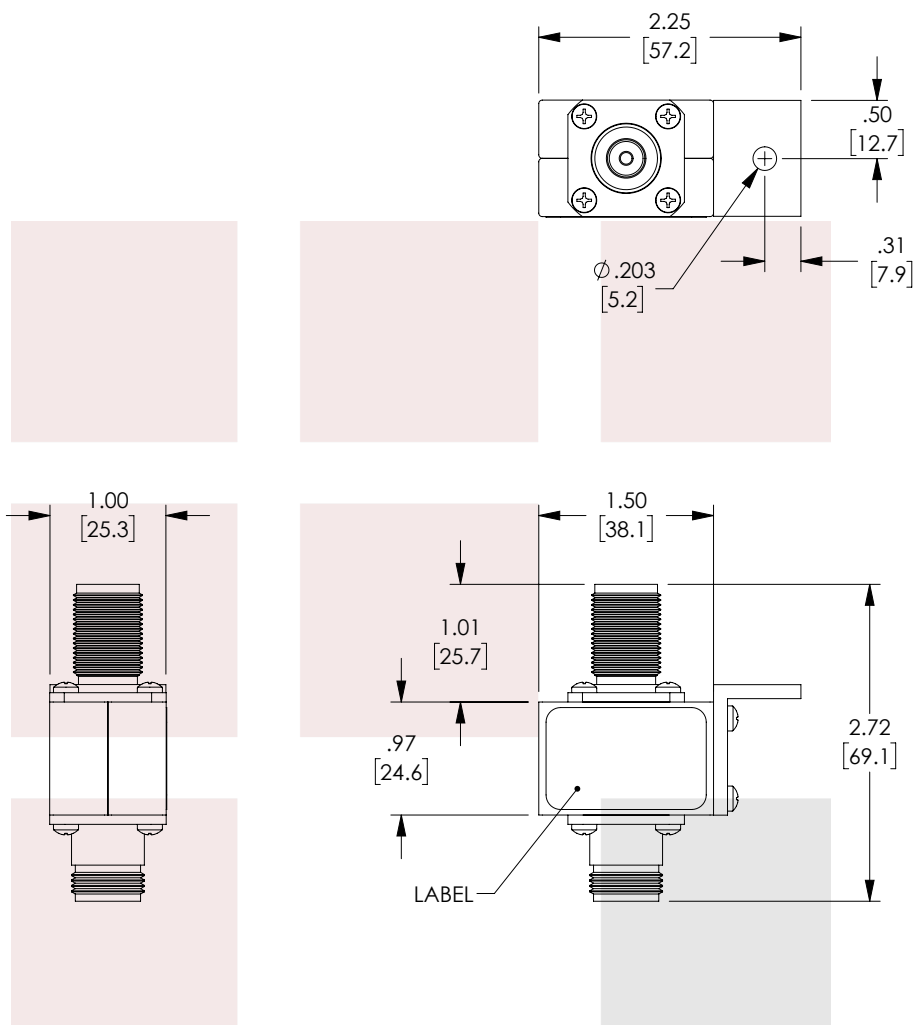
Type N F/F In/Out Bulkhead Coaxial RF Surge Protector, 1.5MHz - 700MHz, DC Block, 3kW, 20kA, Blocking Cap and Gas Tube from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, 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, 1.5MHz - 700MHz, DC Block, 3kW, 20kA, Blocking Cap and Gas Tube FMSP1030](https://www.fairviewmicrowave.com/type-n-f-f-in-out-bulkhead-coaxial-rf-surge-protector-1.5mhz-700mhz-dc-block-3kw-20ka-blocking-cap-and-gas-tube-fmsp1030)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-700mhz-blocking-cap-gas-tube-fmsp1030-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
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Protector, 1.5MHz - 700MHz, DC Block, 3kW, 20kA,
Blocking Cap and Gas Tube

DWG NO FMSP1030		CAGE CODE 3FKR5		
CAD FILE	3/15/18	SHEET	1 OF 1	SCALE N/A
		SIZE	A	XXXX