

**TNC F/F In/Out Coaxial RF Surge Protector, 800MHz
 - 2.5GHz, DC Pass, 300W, IP67, 20kA, Hybrid,
 Bracket Toward Body**

RF surge protector (also known as lightning arrester) FMSP1016 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	0.8		2.5	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 TNC Female
 Output Connector TNC 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 800 MHz to 2.5 GHz
- TNC 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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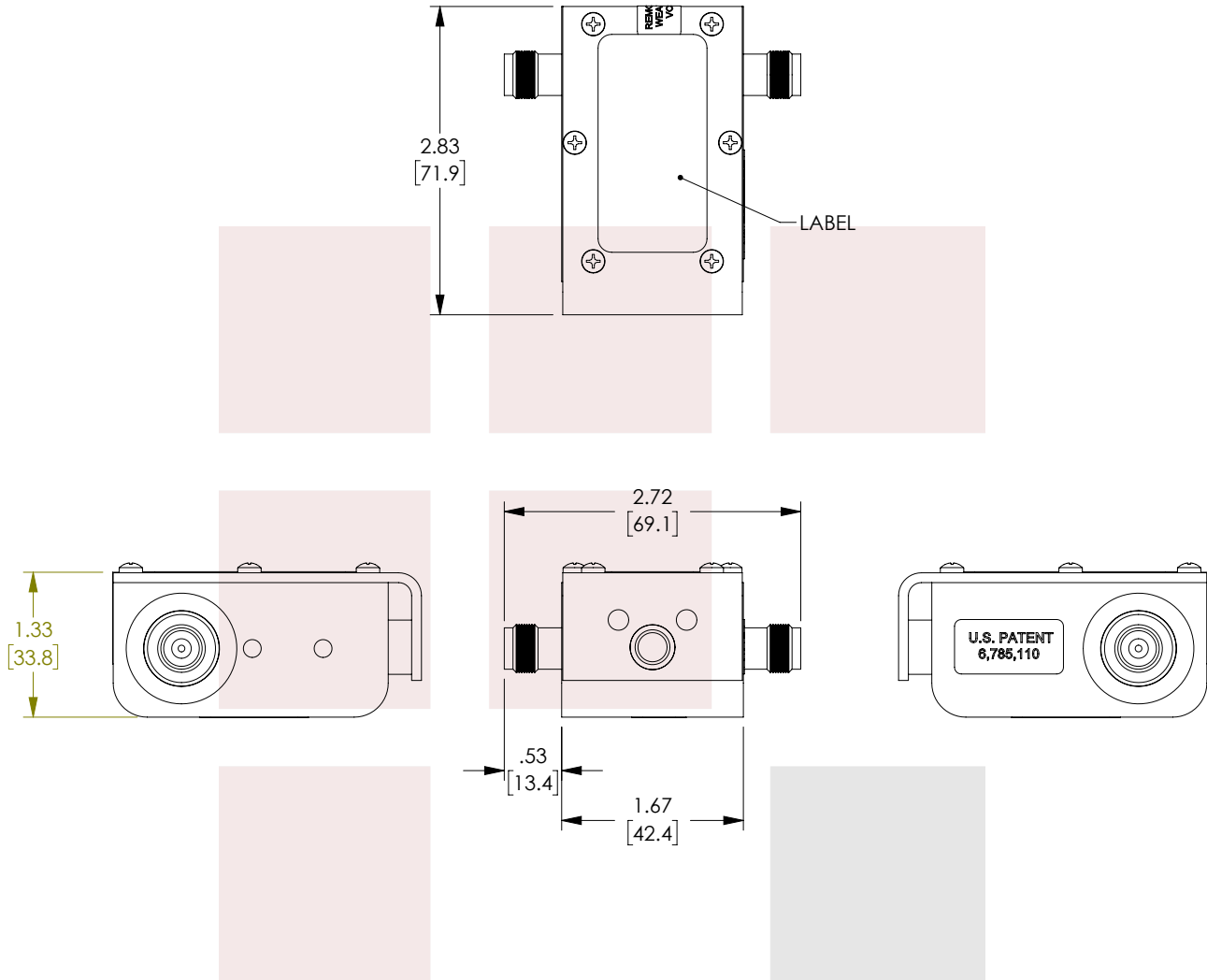
TNC F/F In/Out Coaxial RF Surge Protector, 800MHz - 2.5GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [TNC F/F In/Out Coaxial RF Surge Protector, 800MHz - 2.5GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body FMSP1016](#)

URL: <https://www.fairviewmicrowave.com/tnc-surge-protector-2.5ghz-hybrid-fmsp1016-p.aspx>

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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 TNC F/F In/Out Coaxial RF Surge Protector, 800MHz - 2.5GHz, DC Pass, 300W, IP67, 20kA, Hybrid, Bracket Toward Body		DWG NO FMSP1016		CAGE CODE 3FKR5	
CAD FILE 3/9/18	SHEET 1 OF 1	SCALE N/A	SIZE A	XXXX	