

High Power Limiter, SMA, 20W Peak Power, 18 dBm Flat Leakage, 500 MHz to 18 GHz

The FMLML2009 is a broadband Signal Limiter that operates from 500 MHz to 18 GHz. This limiter has up to 2 watts CW input power handling capability and peak power handling up to 20 watts max. Impressive typical performance includes 1.6 dB max Insertion loss, +14 dBm leakage power, and 1.8:1 VSWR. The excellent technical performance is achieved through the use of thin film stripline construction. The low profile pin package assembly supports a field replaceable SMA male input and SMA female output connector, and can be drop mounted onto a PWB. The limiter is designed for high reliability and meets MIL-STD-202F environmental conditions for Humidity, Shock, Vibration, and Altitude.



Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	0.5		18	GHz
Insertion Loss		1.6	2	dB
VSWR		1.8:1		
Leakage (CW)		+14	+18	dBm
Input Power (CW)			2	Watt
Input Power (Peak) @1μs Pulse Width 1% Duty Cycle			20	Watt
Limiting Threshold	+14			dBm

Mechanical Specifications

Size	
Length	0.53 in [13.46 mm]
Width	0.63 in [16 mm]
Height	0.25 in [6.35 mm]
Weight	0.5 lbs [226.8 g]

Configuration

Style	Limiter
Package Style	Connectorized
Connector 1	SMA Male
Connector 2	SMA Female
Connector Option	Field Replaceable

Environmental Specifications

Temperature	
Operating Range	0 to +50 deg C
Storage Range	-45 to +100 deg C

Features:

- Frequency Range: 500 MHz to 18 GHz
- 2 Watt Input Power (CW)
- 1.6 dB typ Insertion Loss
- VSWR 1.8:1 typ
- Leakage @ 2 Watt CW +14 dBm typ
- +20 dBm Peak Input Power
- Limiting Thershold +14 dBm min
- Field Replaceable SMA Connectors
- Compact and Rugged Thin Film Construction
- 0°C to +50°C Operating Temperature
- 50 Ohm Design
- Designed to meet MIL-STD-202 Environmental Test Conditions

Applications:

- Receiver Protection
- Test & Measurement
- Reducing Amplitude Variations
- Protects Low Noise Amplifiers and other Devices from ESD or input power damage
- Electronic Warfare
- Military & Space
- Military & Commercial Wireless Communications Systems
- Research & Development

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

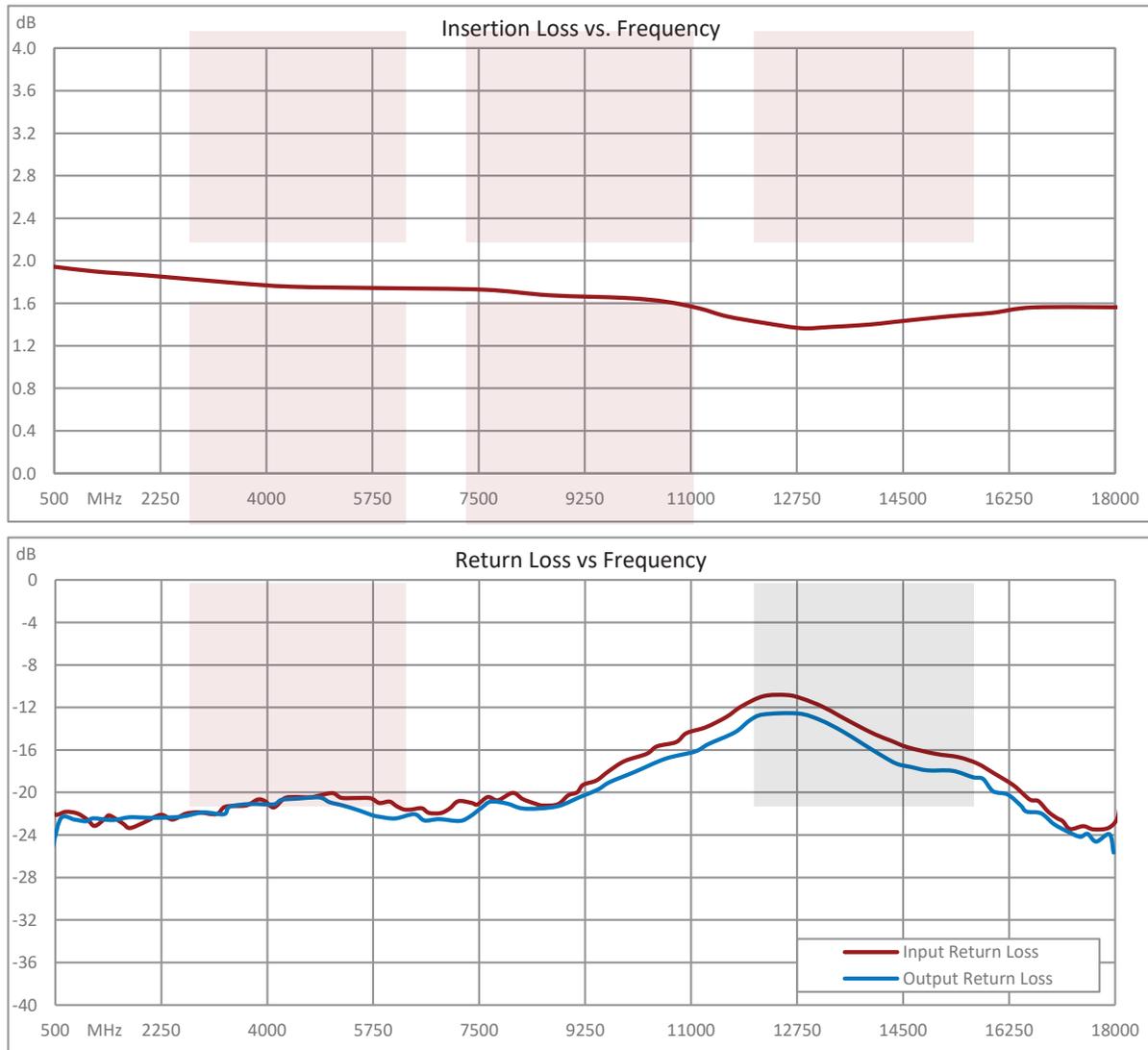
Humidity	MIL-STD-202, Method 103B, Condition B
Shock	MIL-STD-202F, Method 213B, Condition B
Vibration	MIL-STD-202F, Method 204D, Condition B
Altitude	MIL-STD-202F, Method 105C, Condition B

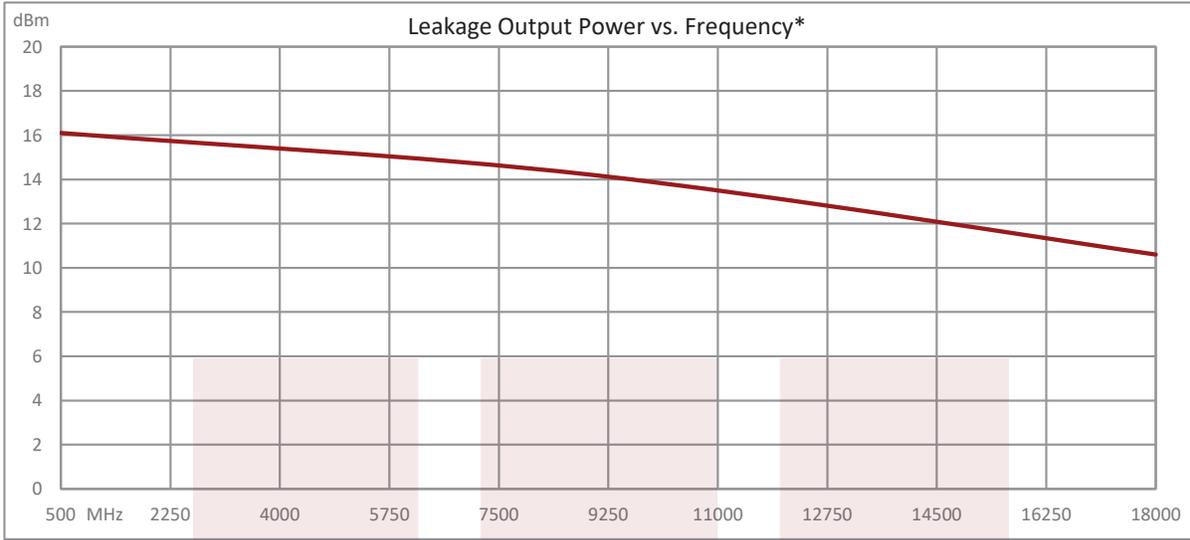
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data





*Input Power +33 dBm

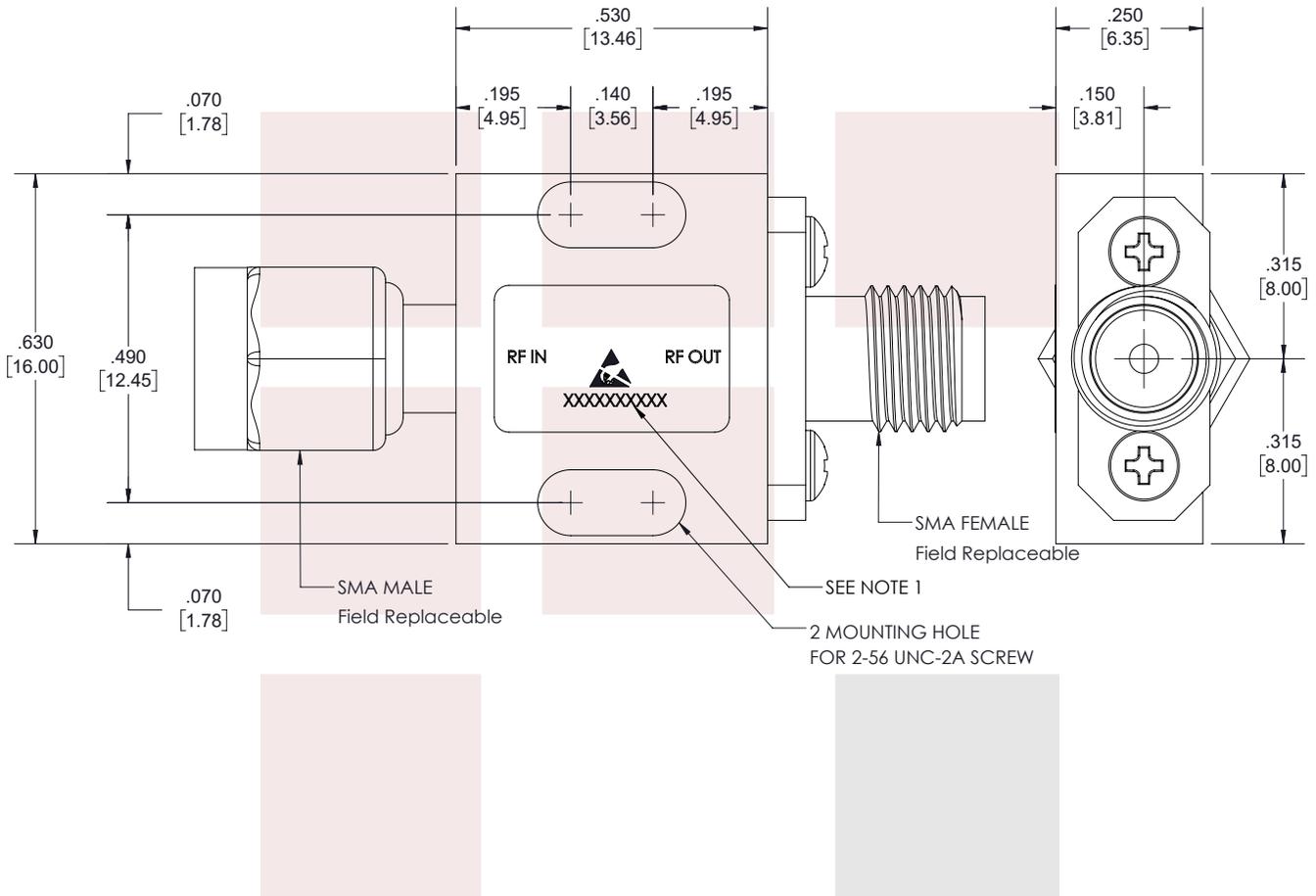
High Power Limiter, SMA, 20W Peak Power, 18 dBm Flat Leakage, 500 MHz to 18 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Limiter, SMA, 20W Peak Power, 18 dBm Flat Leakage, 500 MHz to 18 GHz FMLM2009](https://www.fairviewmicrowave.com/sma-limiter-18-dbm-18-ghz-fmlm2009-p.aspx)

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11-08-2021	TGALLA



NOTES:

- SERIAL NUMBER AND DATE CODE ARE COMBINED. EX: 202008280001.

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<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SCALE</p> <p>N/A</p>	
<p>SIZE</p> <p>A</p>	<p>CAGE CODE</p> <p>3FKR5</p>	<p>DRAWN BY</p> <p>MVEERAPPAN</p>	<p>ITEM NO.</p> <p>FMLM2009</p>	<p>REV</p> <p>A</p>

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