



High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 8 GHz to 12 GHz

The FMLM2004 is an X Band Signal Limiter that operates in the 8 GHz to 12 GHz frequency range. The Limiter has up to 3 Watts CW input power handling capability with a +18 dBm max leakage output power level and +50 dBm peak input power. Typical performance incudes 1.2 dB max insertion loss, 1.8:1 typical input VSWR, and a fast response and short recovery time of 15 µsec. The excellent technical performance is achieved through the use of thin film stripline circuit construction. The low profile pin package supports field replaceable SMA connectors and can be drop mounted onto a PWB. The Limiter is designed for high reliability and meets MIL-STD-202F environmental test conditions for Humidity, Shock, Vibration, and Altitude.

Electrical Specifications

Description	Min	Тур	Max	Unit
Frequency Range	8		12	GHz
Insertion Loss			1.2	dB
Input VSWR		1.8:1		
Leakage (CW)			+18	dBm
Recovery Time		15		us
Input Power (CW)			3	Watt
Input Power (Peak)			100	Watt
@10µs Pulse Width 5	% Duty Cycle			
Limiting Threshold	+15			dBm

Mechanical Specifications

Size

 Length
 0.788 in [20.02 mm]

 Width
 0.63 in [16 mm]

 Height
 0.394 in [10.01 mm]

 Weight
 0.04 lbs [18.14 g]

Configuration

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

Environmental Specifications Temperature

Operating Range 0 to $+50 \deg C$ Storage Range $-45 \text{ to } +100 \deg C$



Features:

- 3 Watt Input Power(CW)
- 8 GHz to 12 GHz Frequency Range
- 1.2 dB Insertion Loss max.
- VSWR 1.8:1
- Leakage @ 1 Watt CW +18 dBm Max
- +50 dBm Peak Input Power
- Limiting Threshold +15 dBm
- Field Replaceable SMA Connectors
- Fast Response and Short Recovery Time 15 µs typical
- Compact and Rugged Thin Film Construction

Applications:

- · Electronic Warfare
- Test & Measurement
- Military & Space
- Military Communication Systems
- Stabilizing generator outputs
- Reducing amplitude variations
- Protects low noise amplifiers and other devices from ESD or input power damage
- Receiver Protection
- Weapon systems

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Humidity MIL-STD-202F, 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

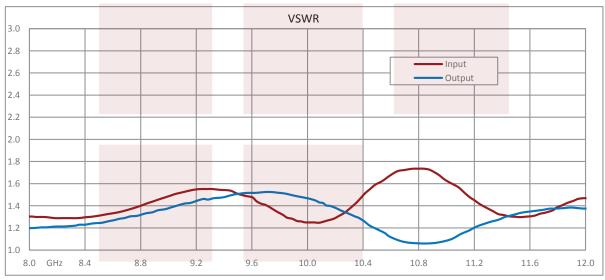
Compliance Certifications (see product page for current document)

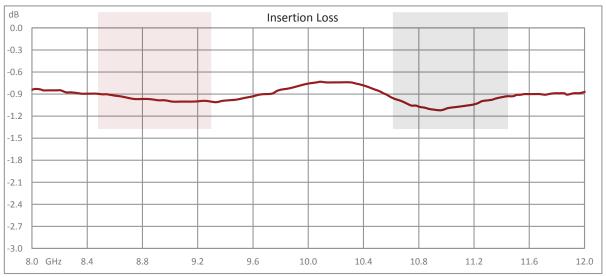
DFARS Compliant 01/12/2017

Plotted and Other Data

Notes:

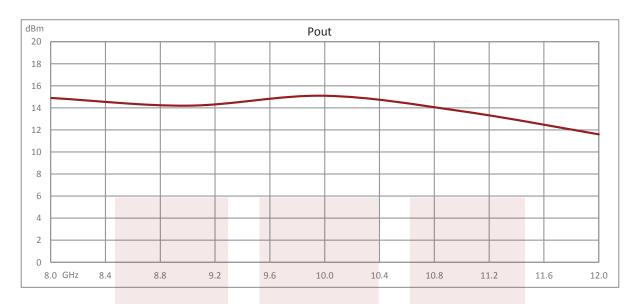
Typical Performance Data











High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 8 GHz to 12 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 8 GHz to 12 GHz FMLM2004

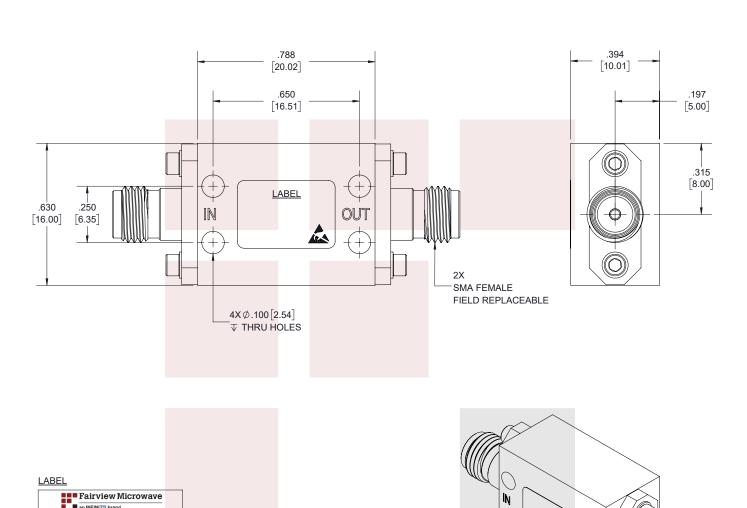
URL: https://www.fairviewmicrowave.com/sma-limiter-pin-15-us-18-dbm-12-ghz-fmlm2004-p.aspx

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10UT



STANDARD TOLERANCES ±0.2 .XX ±0.01 .XXX ±0.005

FMLM2004 S/N: XXXXXXX D/C: XXYY

*STANDARD TOLERANCES APPLY

ONLY TO DIMENSIONS IN INCHES									
Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.								
an INFINIT® brand	3. DIMENSIONS ARE IN INCHES [mm].								
TITLE	DWG NO FMLM2004				CAGE CODE 3FKR5				
High Power Limiter, Field Replaceable SMA, 100W Peak Power, 15 us Recovery, 18 dBm Flat Leakage, 8 GHz to 12 GHz	CAD FILE 05/09/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361			