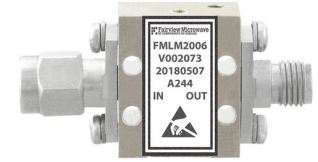


High Power Limiter, Field Replaceable SMA,  
20W Peak Power, 15 us Recovery, 14 dBm  
Flat Leakage, 2 GHz to 18 GHz



## FMLM2006

### Features

- 1 Watt Input Power(CW)
- 2 GHz to 18 GHz Frequency Range
- 2.5 dB Insertion Loss max.
- VSWR 2:1
- Leakage @ 1 Watt CW +14 dBm Max
- +20 W Peak Input Power
- Limiting Threshold +6 dBm
- Field Replaceable SMA Connectors
- Fast Response and Short Recovery Time 15  $\mu$ s 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

### Description

The FMLM2006 is a Signal Limiter that operates in the 2 GHz to 18 GHz frequency range. The Limiter has up to 1 Watt CW input power handling capability with a +14 dBm max leakage output power level and +20 dBm peak input power. Typical performance includes 2.5 dB typ insertion loss, 2:1 typical input VSWR, and a fast response and short recovery time of 15  $\mu$ sec. 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	Typ	Max	Unit
Frequency Range	2		18	GHz
Insertion Loss		2.5		dB
Input VSWR		2:1		
Leakage (CW) @ 1 Watt CW			+14	dBm
Recovery Time*		15		us
Input Power (CW)			1	Watt
Input Power (Peak) @10 $\mu$ s Pulse Width 5% Duty Cycle			20	Watt
Limiting Threshold		+6		dBm

### Mechanical Specifications

#### Size

Length	0.63 in [16 mm]
Width	0.75 in [19.05 mm]
Height	0.35 in [8.89 mm]
Weight	0.0375 lbs [17.01 g]

#### Configuration

Style	High Power Limiter
Package Style	Connectorized

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## FMLM2006

Connector 1	SMA Male
Connector 2	SMA Female
Connector Option	Field Replaceable

### Environmental Specifications

<b>Temperature</b>	
Operating Range	0 to +50 deg C
Storage Range	-45 to +100 deg C
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

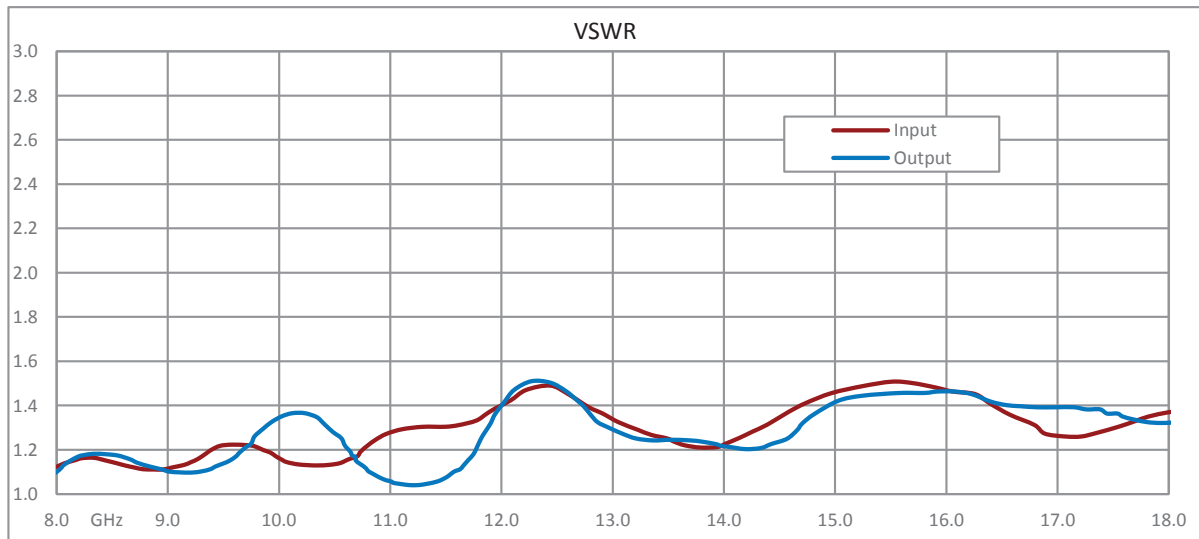
### Compliance Certifications (see [product page](#) for current document)

DFARS Compliant	01/12/2017
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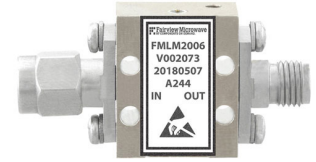
### Plotted and Other Data

Notes:

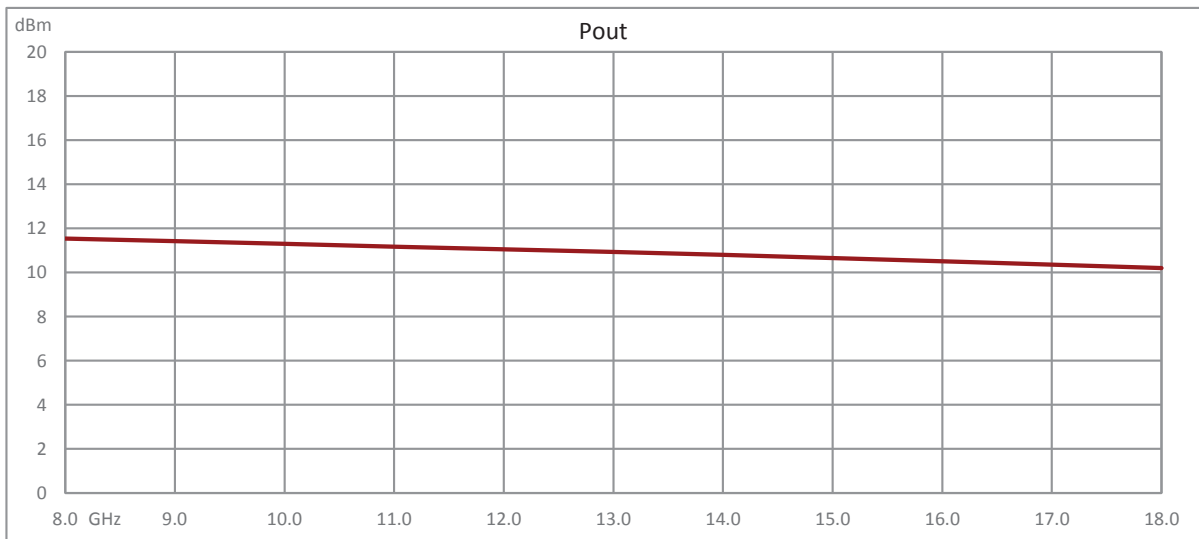
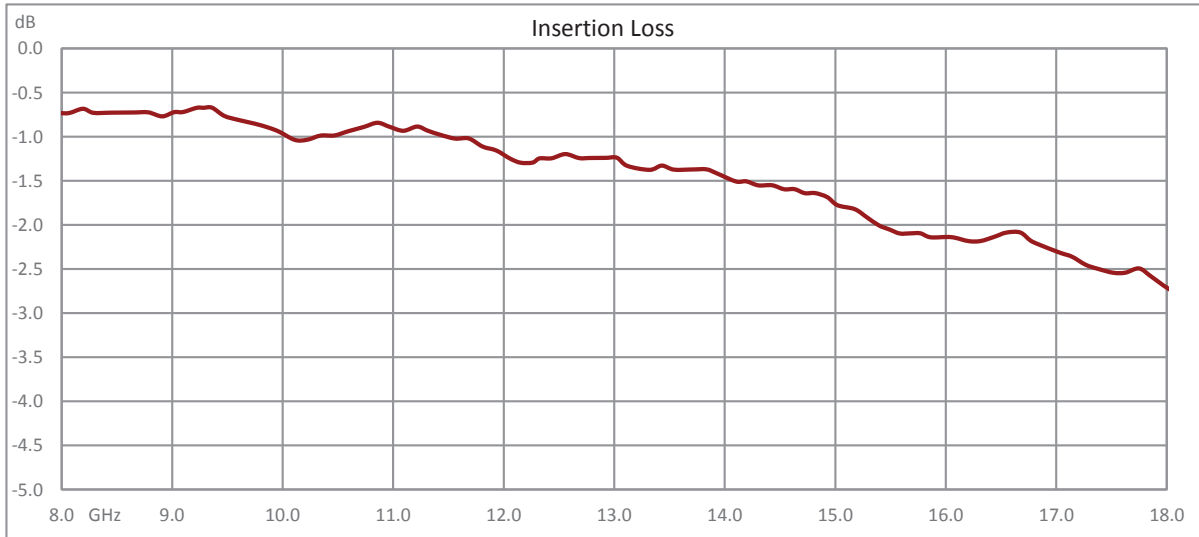
### Typical Performance Data



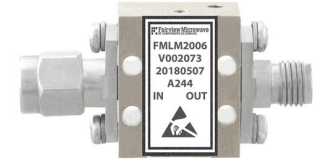
High Power Limiter, Field Replaceable SMA,  
20W Peak Power, 15 us Recovery, 14 dBm  
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**FMLM2006**



High Power Limiter, Field Replaceable SMA,  
20W Peak Power, 15 us Recovery, 14 dBm  
Flat Leakage, 2 GHz to 18 GHz



## FMLM2006

High Power Limiter, Field Replaceable SMA, 20W Peak Power, 15 us Recovery, 14 dBm Flat Leakage, 2 GHz 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.

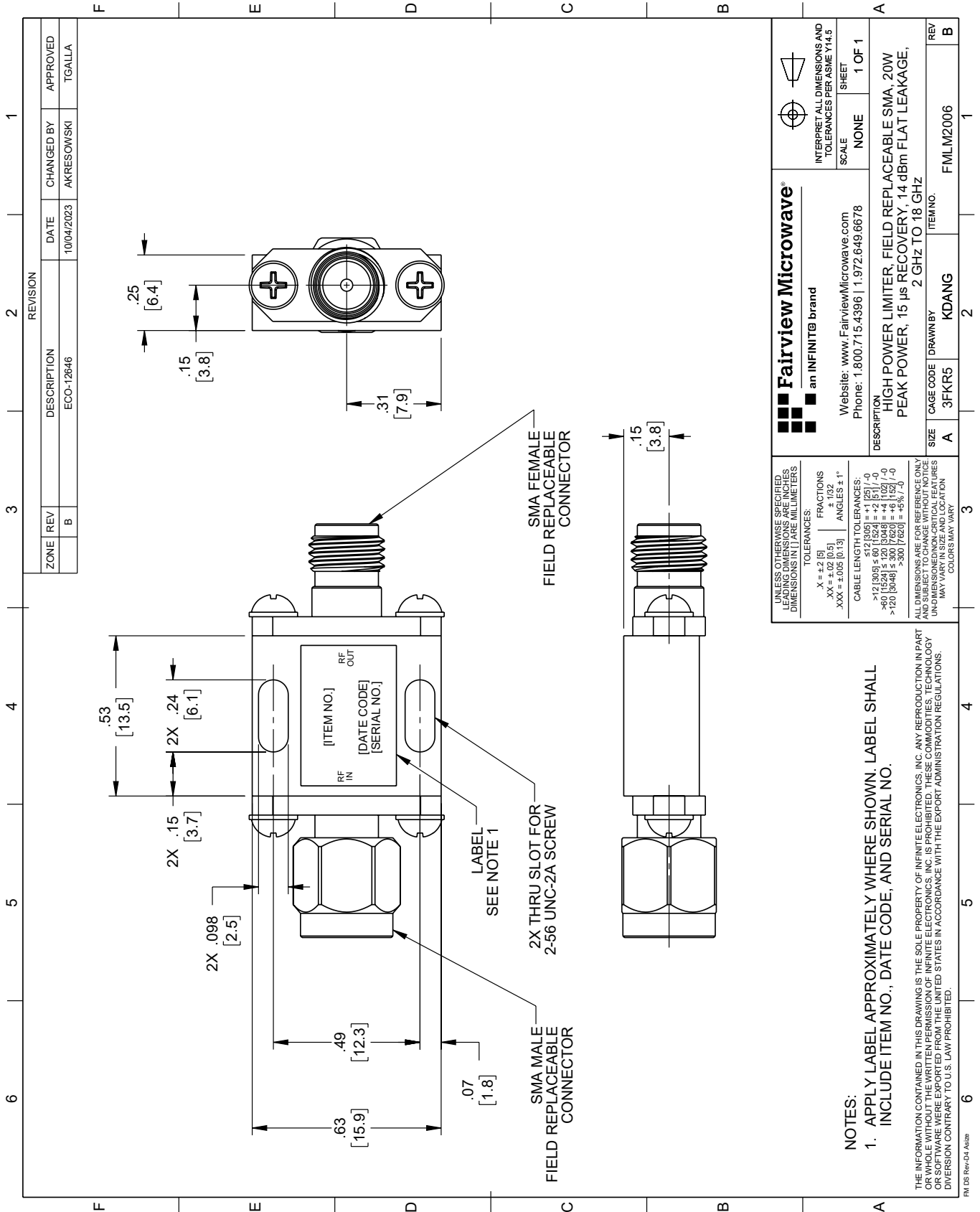
For additional information on this product, please click the following link: [High Power Limiter, Field Replaceable SMA, 20W Peak Power, 15 us Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz FMLM2006](https://www.fairviewmicrowave.com/high-power-limiter-field-replaceable-sma-20w-peak-power-15-us-recovery-14-dbm-flat-leakage-2-ghz-to-18-ghz-fmlm2006)

URL: <https://www.fairviewmicrowave.com/high-power-limiter-field-replaceable-sma-100w-peak-power-15-us-recovery-14-dbm-flat-leakage-2-ghz-to-18-ghz-fmlm2006-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

# FMLM2006 CAD Drawing

High Power Limiter, Field Replaceable SMA, 20W Peak Power, 15 us Recovery, 14 dBm Flat Leakage, 2 GHz to 18 GHz



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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 1

**DESCRIPTION**  
 HIGH POWER LIMITER, FIELD REPLACEABLE SMA, 20W PEAK POWER, 15 us RECOVERY, 14 dBm FLAT LEAKAGE, 2 GHz TO 18 GHz

REV	REV	REV
A	3FKR5	KDANG
B		

ITEM NO. FMLM2006