

SMA Limiter High Power 100 ns Recovery With 14 dBm Flat Leakage Operating From 2 GHz to 18 GHz, Hermetic Seal

SML-0218-01-14-SMAH is a High Power Limiter that operates in the 2 GHz to 18 GHz Frequency Range. The Limiter Handles 200 Watts Peak Power with a pulse width of 1 usec and 0.1% Duty Cycle or 1 Watt CW. The High Power Limiter is Hermetically Sealed.

Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	2		18	GHz
Insertion Loss @Pin=-10 dBm			2	dB
Input VSWR			2:1	
Output VSWR			2:1	
Leakage (CW) Derated by 20% @ +125°C			+14	dBm
Recovery Time @Pin=27 dBm			100	ns
Input Power (CW) Derated by 20% @ +125°C			1	Watt
Input Power (Peak) @1us pulse, 0.1% Duty Cycle			200	Watt
Limiting Threshold		+6		dBm

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size	
Length	0.75 in [19.05 mm]
Width	1 in [25.4 mm]
Height	0.3 in [7.62 mm]
Weight	0.033 lbs [14.97 g]

Configuration

Style	High Power Limiter
Package Style	Hermetically Sealed
Connector 1	SMA Male
Connector 2	SMA Female

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C
Storage Range	-65 to +125 deg C



Features:

- 200 Watt Peak Power
- 1 Watt CW Power
- 2 GHz to 18 GHz Frequency Range
- 100 nsec Recovery Time Max
- +6 dBm Typ Limiting Threshold
- 2.0 dB Max Insertion Loss
- Hermetically Sealed Package

Applications:

- Military Communications Systems
- Radar
- Electronic Warfare
- Test & Measurement
- Military & Space

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Humidity	MIL-STD-202F, METHOD 103B COND. B
Shock	MIL-STD-202F, METHOD 213B COND. B
Vibration	MIL-STD-202F, METHOD 204D COND. B
Altitude	MIL-STD-202F, METHOD 105C COND. B
Temperature Cycle	MIL-STD-202F, METHOD 107D COND. A
Fungus	MIL-STD-810F, METHOD 508.5
Salt Fog	MIL-STD-202F, METHOD 101D+EST Cond.B
Hermetic Seal	Hermetic Seal
ESD Sensitivity	Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



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

Plotted and Other Data

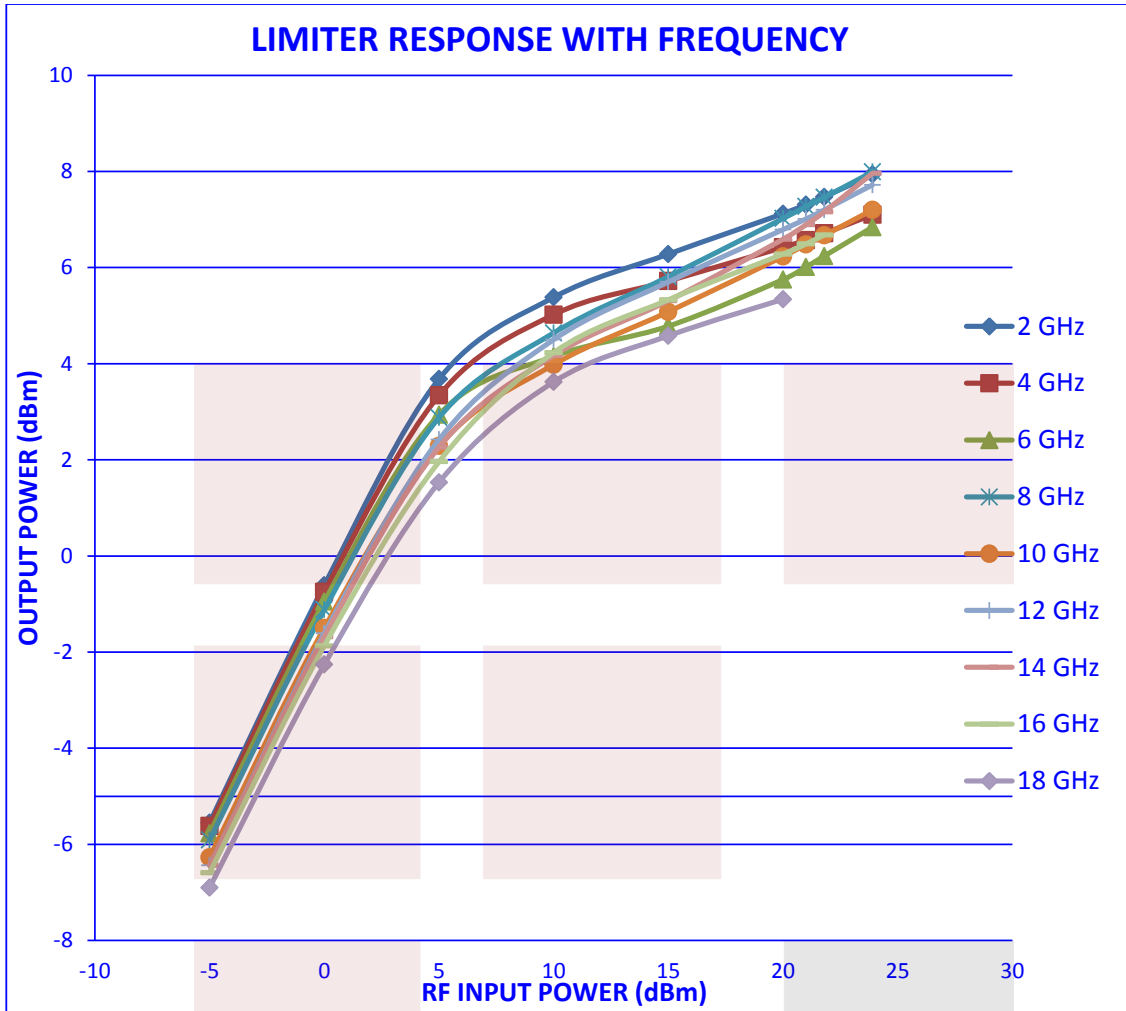
Notes:

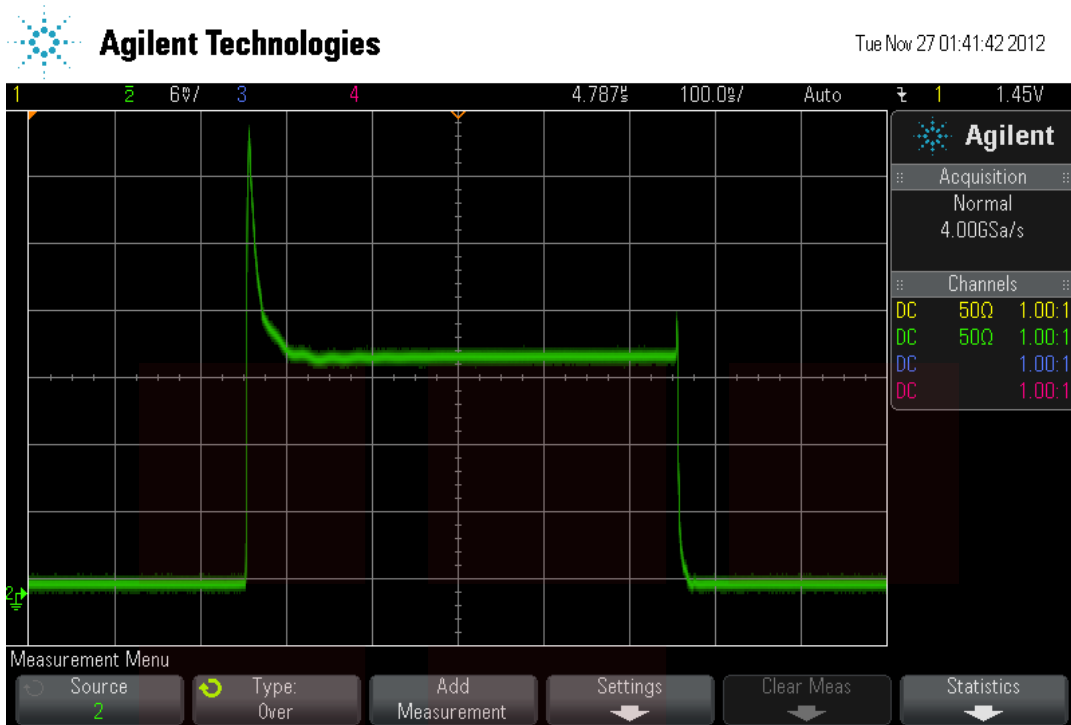
- Values at 25°C, sea level.

Typical Performance Data

Insertion Loss and Return Loss







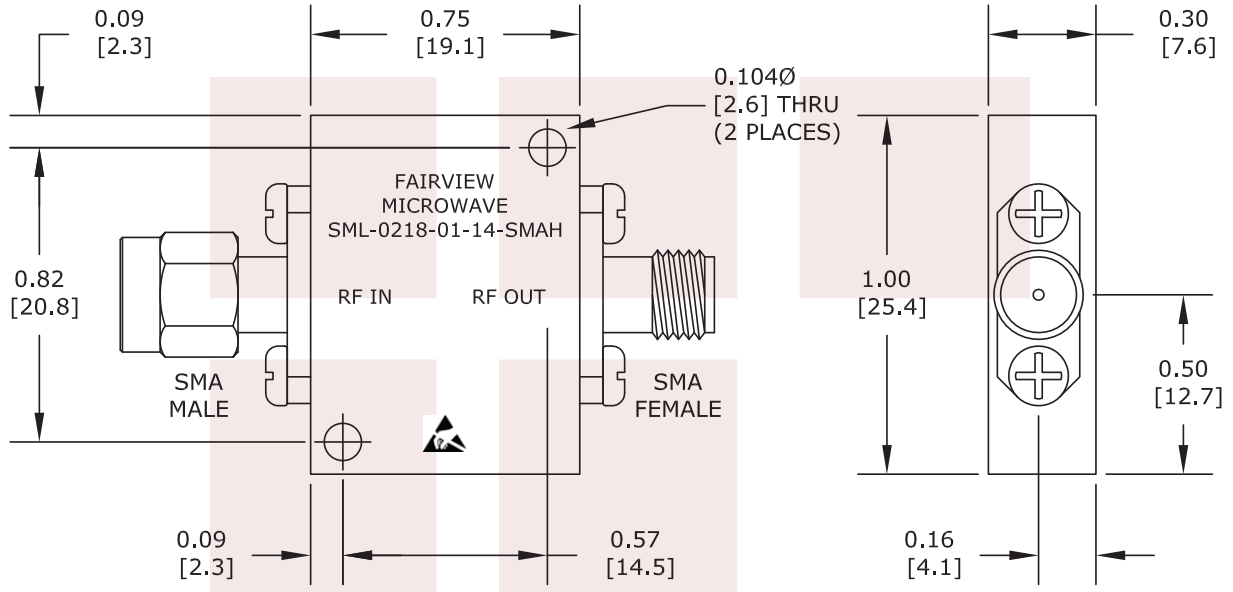
Recovery Time
100ns per Div.

SMA Limiter High Power 100 ns Recovery With 14 dBm Flat Leakage Operating From 2 GHz to 18 GHz, Hermetic Seal 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: [SMA Limiter High Power 100 ns Recovery With 14 dBm Flat Leakage Operating From 2 GHz to 18 GHz, Hermetic Seal SML-0218-01-14-SMAH](https://www.fairviewmicrowave.com/sma-limiter-high-power-100-ns-recovery-with-14-dbm-flat-leakage-operating-from-2-ghz-to-18-ghz-hermetic-seal-sml-0218-01-14-smah)

URL: <https://www.fairviewmicrowave.com/sma-limiter-high-power-100-ns-18-ghz-sml-0218-01-14-smah-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.



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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DWG NO	SML-0218-01-14-SMAH	CAGE CODE	3FKR5		
CAD FILE	082014	SHEET	SCALE	N/A	SIZE A 2233