

**SMA Limiter High Power 10 ns Recovery With
 14 dBm Flat Leakage Operating From 12 GHz to
 18 GHz**

The SML-1218-01-14-SMA is a High Power Limiter that operates from 12 GHz to 18 GHz. The Limiter handles 100 Watts Peak Incident Power with a pulse of 1 us.



Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	12		18	GHz
Insertion Loss @Pin=-20 dBm		1.5	2	dB
Input VSWR		1.5:1	2:1	
Output VSWR		1.5:1	2:1	
Leakage (CW) @ 1 Watt CW		+10	+14	dBm
Recovery Time			10	ns
Input Power (CW) Derated by 20% @ +125°C			1	Watt
Input Power (Peak) @1us pulse, 0.1% Duty Cycle			100	Watt

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

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	1 in [25.4 mm]
Height	0.4 in [10.16 mm]
Weight	0.033 lbs [14.97 g]
Configuration	
Style	High Power Limiter
Connector 1	SMA Male
Connector 2	SMA Female

Environmental Specifications

Temperature	
Operating Range	-54 to +85 deg C
Storage Range	-65 to +100 deg C
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
ESD Sensitivity	Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Features:

- High Speed 100 Watt Peak Limit
- 12 GHz to 18 GHz Frequency Range
- Insertion Loss @ -20 dBm 1.5 dB
- VSWR @ -20 dBm 1.5:1
- Leakage @ 1 Watt CW 10 dBm
- Pulse Width 1 us
- High Power Handling
- Very Fast Recovery Time

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

Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com



Compliance Certifications (visit www.FairviewMicrowave.com for current document)
 Not RoHS Compliant

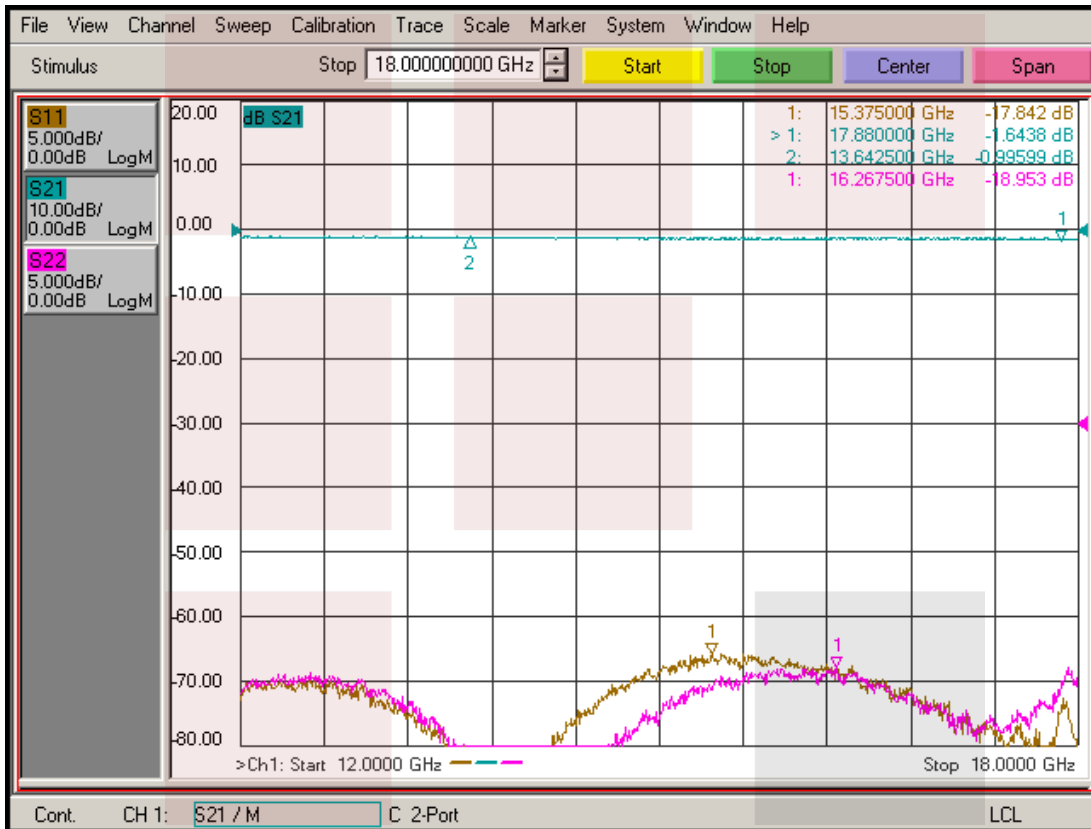
Plotted and Other Data

Notes:

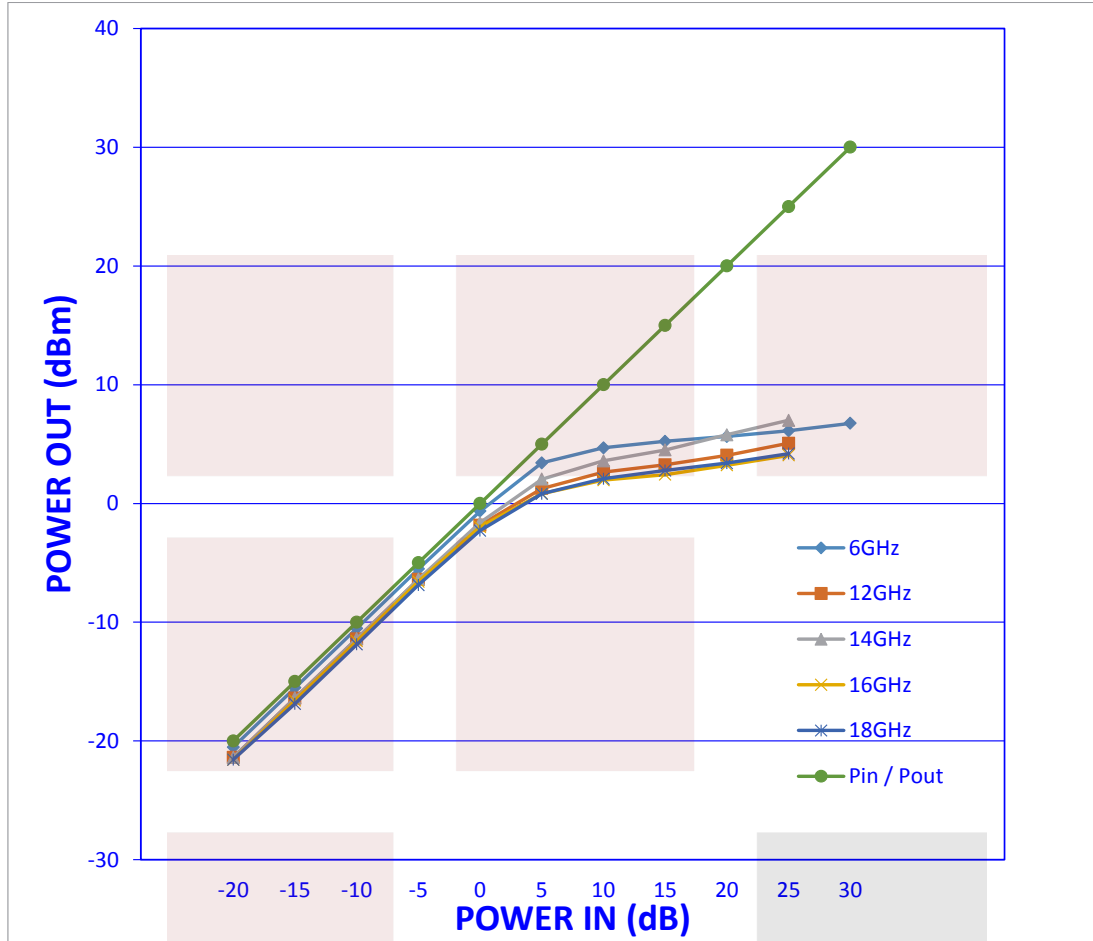
- Values at 25°C, sea level.

Typical Performance Data

[Insertion Loss & Return Loss](#)

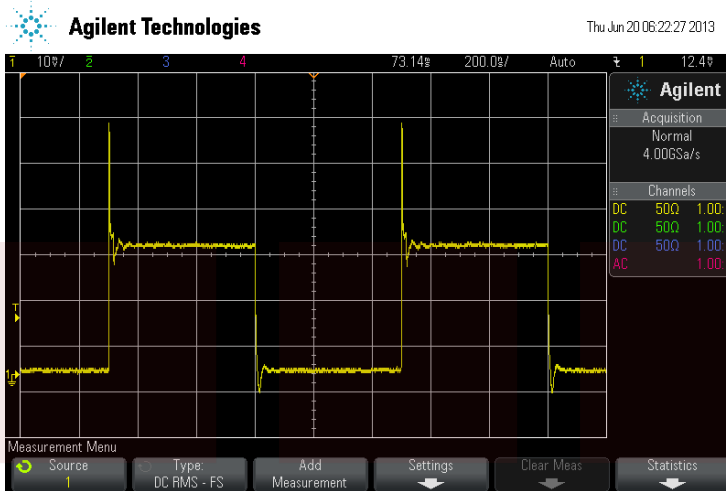


Limiting Response

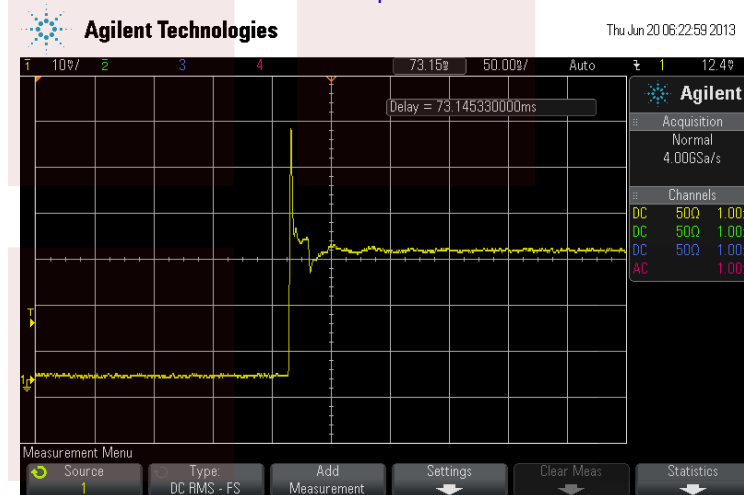


Recovery Time
 (1W @ 6GHz –Pulsed @ 1MHz, 50% Duty Cycle)

200ns per Div.



50ns per Div.

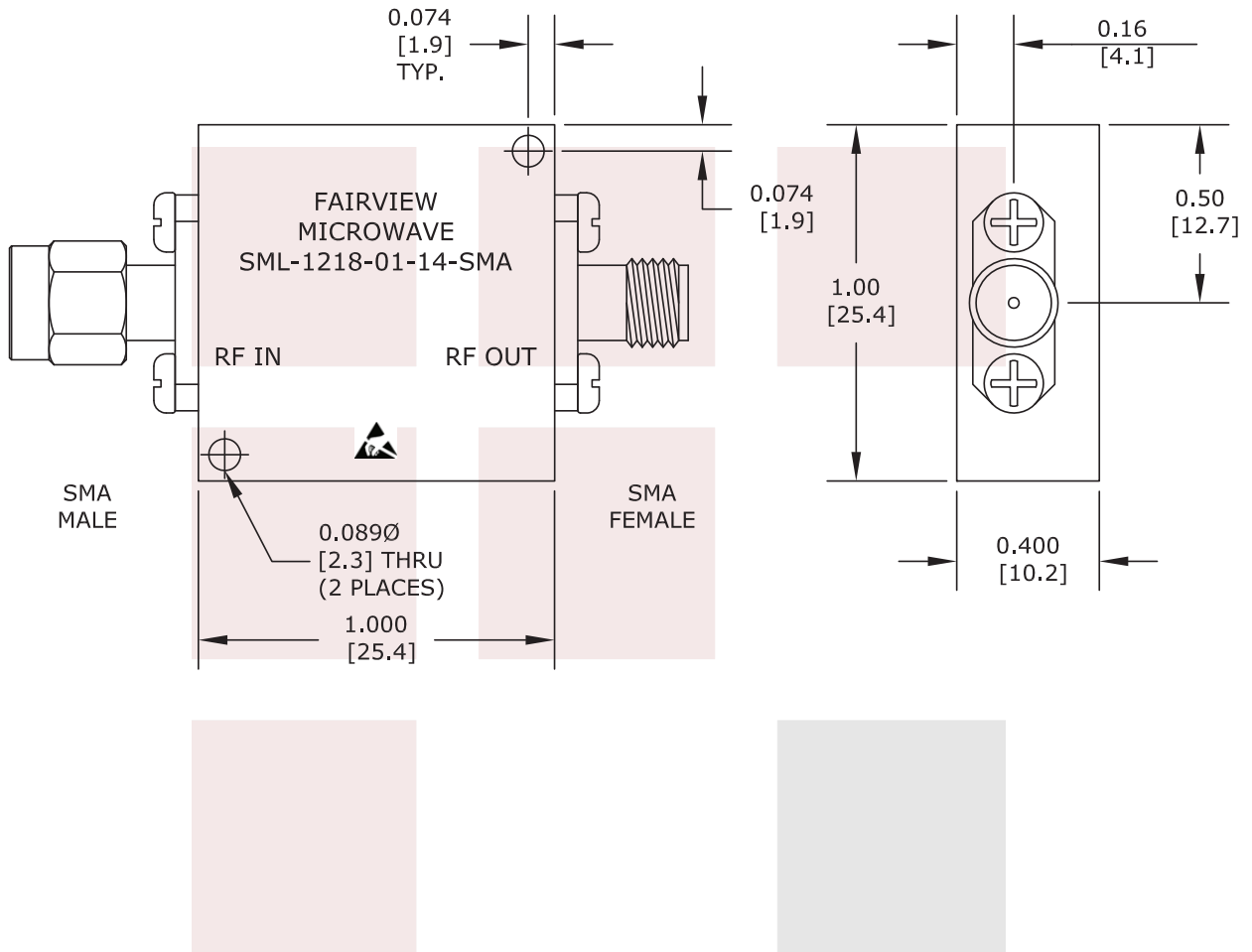


SMA Limiter High Power 10 ns Recovery With 14 dBm Flat Leakage Operating From 12 GHz to 18 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Limiter High Power 10 ns Recovery With 14 dBm Flat Leakage Operating From 12 GHz to 18 GHz SML-1218-01-14-SMA](http://www.fairviewmicrowave.com/sma-limiter-high-power-10-ns-18-ghz-sml-1218-01-14-sma-p.aspx)

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TITLE SMA Limiter High Power 10 ns Recovery With 14 dBm Flat Leakage Operating From 12 GHz to 18 GHz		DWG NO SML-1218-01-14-SMA		CAGE CODE 3FKR5	
CAD FILE 082014 SHEET		SCALE N/A		SIZE A 2233	