

2.92mm Limiter High Power 10 ns Recovery With 18 dBm Flat Leakage Operating From 18 GHz to 40 GHz

SML-1840-01-18-K is a High Power Limiter that operates from 18 GHz to 40 GHz. The Limiter handles 20 W Peak Power and operates from -54 Deg C to + 85 Deg C.

Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	18		40	GHz
Insertion Loss @Pin=-10 dBm			4	dB
Input VSWR			2.1:1	
Output VSWR			2.1:1	
Leakage (CW) @ 1 Watt CW		+12	+18	dBm
Recovery Time			10	ns
Input Power (CW) Derated by 20% @ +125°C			1	Watt
Input Power (Peak) @1us pulse, 0.1% Duty Cycle			20	Watt
Limiting Threshold		+5	+9	dBm

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

Mechanical Specifications

Size	
Length	0.5 in [12.7 mm]
Width	0.5 in [12.7 mm]
Height	0.22 in [5.59 mm]
Weight	0.033 lbs [14.97 g]
Configuration	
Style	High Power Limiter
Connector 1	2.92mm Female
Connector 2	2.92mm Female

Environmental Specifications

Temperature	
Operating Range	-54 to +85 deg C
Storage Range	-55 to +125 deg C



Features:

- High Speed 20 Watt Peak Limit
- 18 GHz to 40 GHz Frequency Range
- Insertion Loss @ -10 dBm 4 dB Max
- VSWR @ -10 dBm 2.1:1
- Leakage @ 1 Watt CW +9 dBm Max
- Recovery Time 10 ns
- Limiting Threshold +9 dBm
- 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

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.



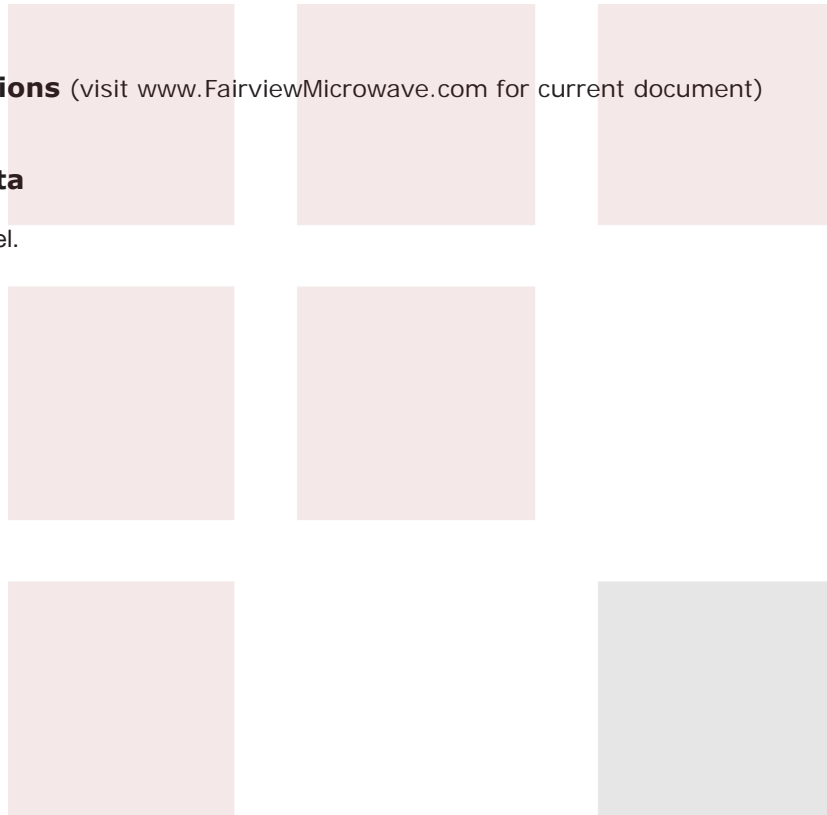
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

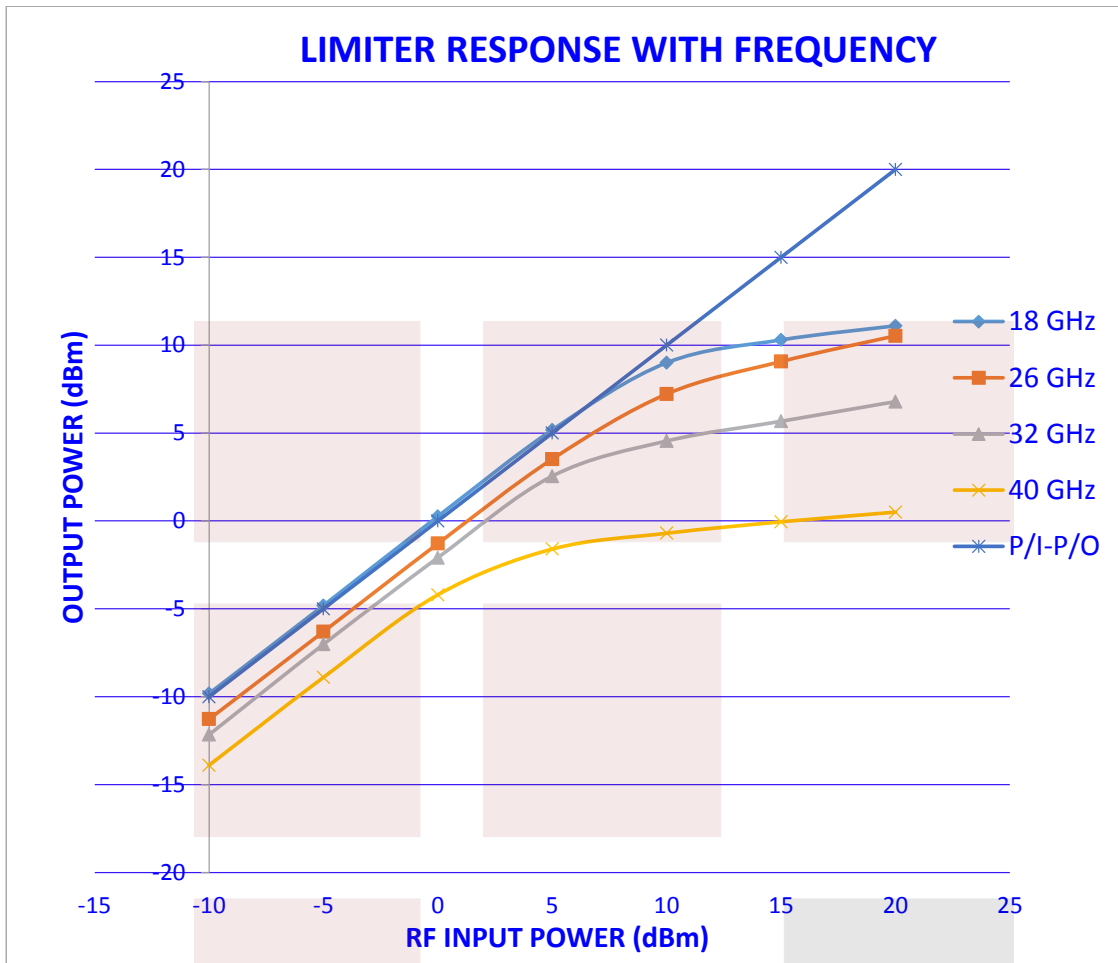
- Values at 25°C, sea level.



Typical Performance Data

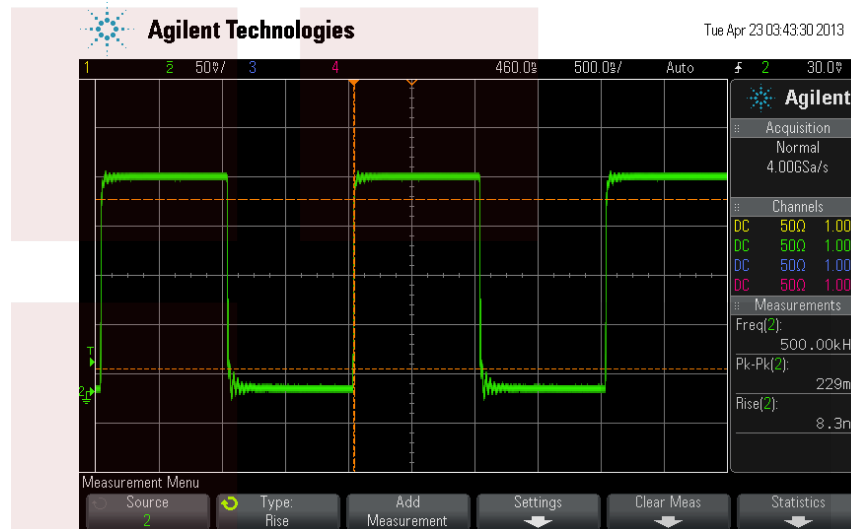
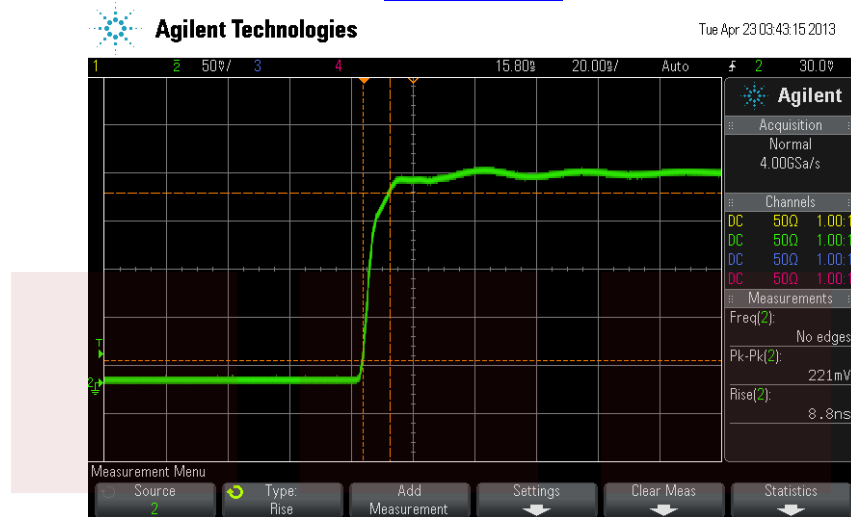
Insertion Loss & Return Loss (In/Out)





Power Input vs. Power Output

Recovery Time
1Watt - Pulse IN

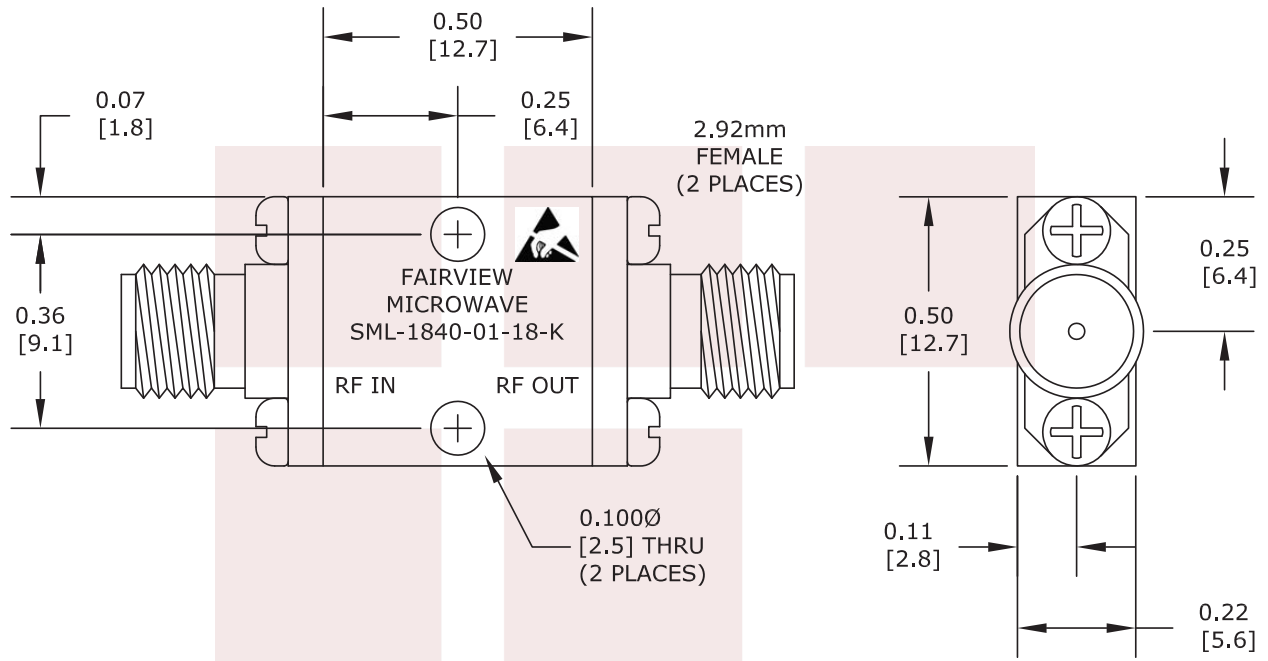


2.92mm Limiter High Power 10 ns Recovery With 18 dBm Flat Leakage Operating From 18 GHz to 40 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.92mm Limiter High Power 10 ns Recovery With 18 dBm Flat Leakage Operating From 18 GHz to 40 GHz SML-1840-01-18-K](http://www.fairviewmicrowave.com/2.92mm-limiter-high-power-10-ns-40-ghz-sml-1840-01-18-k)

URL: <http://www.fairviewmicrowave.com/2.92mm-limiter-high-power-10-ns-40-ghz-sml-1840-01-18-k-p.aspx>

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TITLE 2.92mm Limiter High Power 10 ns Recovery With 18 dBm Flat Leakage Operating From 18 GHz to 40 GHz		DWG NO SML-1840-01-18-K		CAGE CODE 3FKR5	
CAD FILE	082014	SHEET	SCALE	N/A	SIZE A 2233