

2.92mm High Power Limiter, 2 GHz to 26 GHz, 10W Peak Power, 18 dBm Flat Leakage



FMLM2014

Features

- 10 Watt Input Power(CW)
- 2 GHz to 26 GHz Frequency Range
- 2.1 dB Insertion Loss max.
- VSWR 2.1:1
- Leakage @ 1 Watt CW +18 dBm Max
- Peak Power Leakage +20.5 dBm
- +10 Watt Peak Input Power
- Field Replaceable 2.92mm Connectors

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 FMLM2014 is a Signal Limiter that operates in the 2 GHz to 26 GHz frequency range. The Limiter has up to 5 Watts CW input power handling capability with a 18 dBm max leakage output power level and +10 Watt peak input power. Typical performance includes 2.1 dB max insertion loss, 2.1:1 typical input VSWR. The low profile pin package supports field replaceable 2.92mm connectors. The module has an operational temperature range from -40°C to 85°C and is guaranteed to meet a series of environmental test conditions for Altitude, Vibration, Humidity and Shock.

Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	2		26	GHz
Insertion Loss		1.8	2.1	dB
Input VSWR		1.6:1	2.1:1	
Output VSWR		1.6:1	2.1:1	
Leakage (CW) @ 1 Watt CW			+18	dBm
Leakage (Peak)			+20.5	dBm
Input Power (CW)			5	Watt
Input Power (Peak) @30us pulse, 5% Duty Cycle			10	Watt

Mechanical Specifications

Size

Length	0.79 in [20.07 mm]
Width	0.71 in [18.03 mm]
Height	0.39 in [9.91 mm]
Weight	0.08 lbs [36.29 g]
Body Material and Plating	Aluminum

Configuration

Style	High Power Limiter
Connector 1	2.92mm Female
Connector 2	2.92mm Female

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Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Storage Range

-50 to +105 deg C

Humidity

100% RH at 35°, 95%RH at 40°

Shock

20G for 11msec half sine wave, 3 axis both directions

Vibration

25g RMS (15 degrees 2KHz) endurance, 1 hour per axis

Altitude

35,000 ft. (Epoxy Sealed Controlled environment)

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

Plotted and Other Data

Notes:

Values at 25°C, sea level.

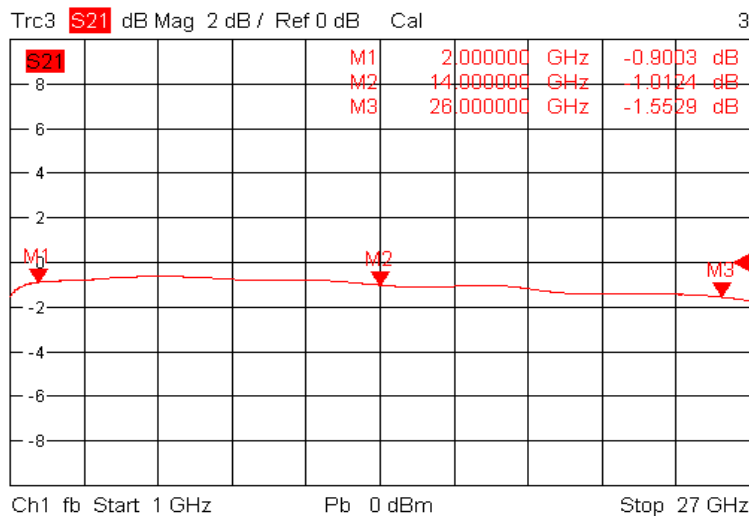
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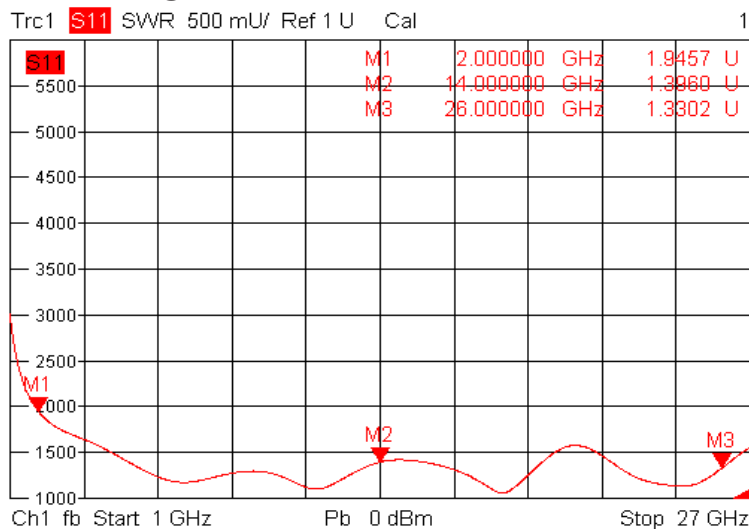
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Typical Performance Data

Insertion Loss @+25°C



Input VSWR @+25°C

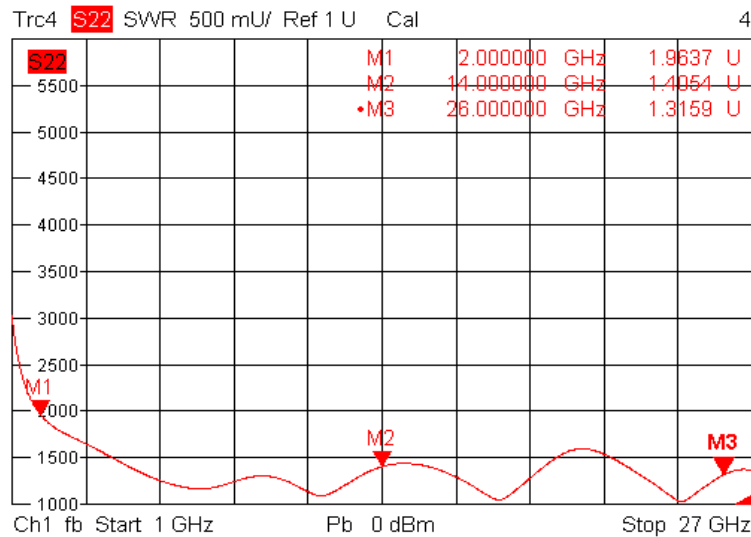


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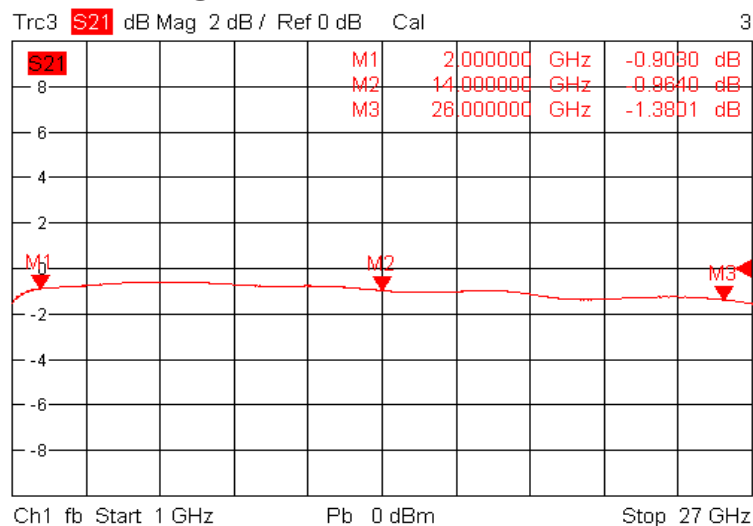


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Output VSWR @+25°C



Insertion Loss @-40°C

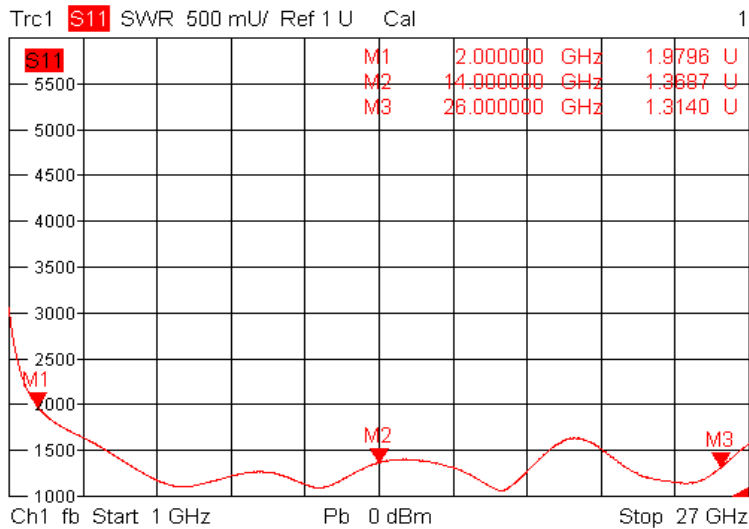


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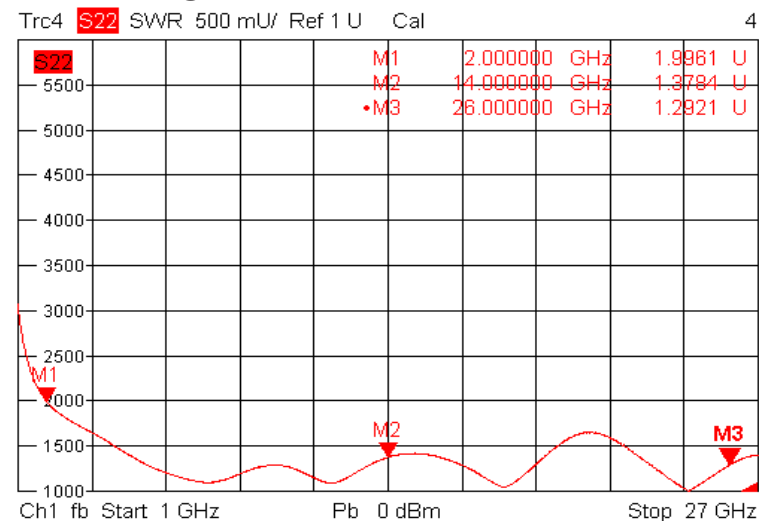


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Input VSWR @-40°C



Output VSWR @-40°C

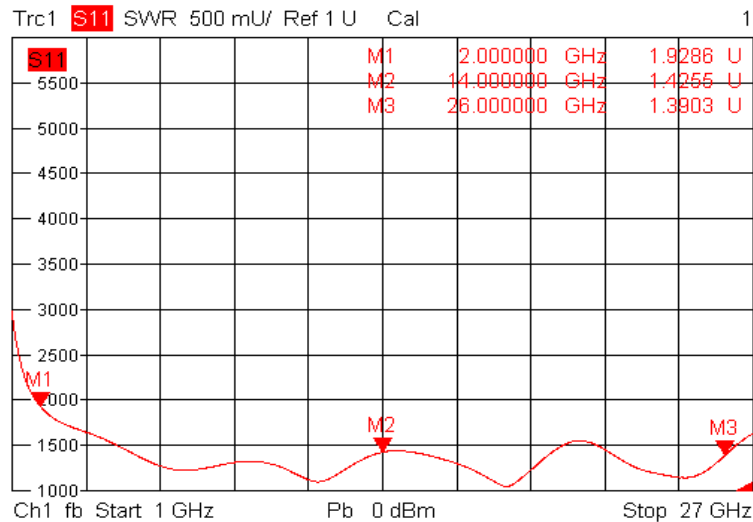


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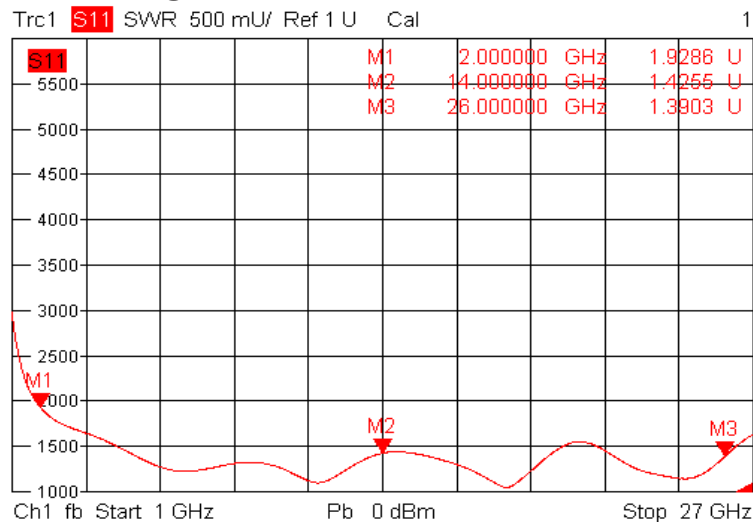


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Insertion Loss @+85°C



Input VSWR @+85°C

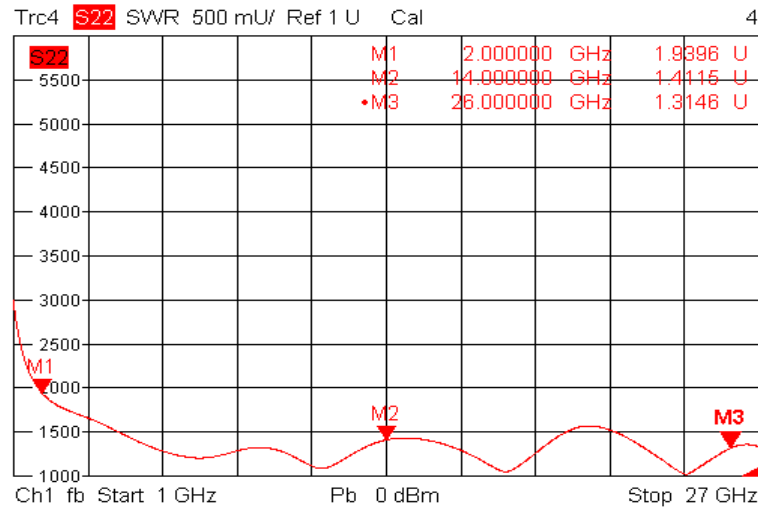


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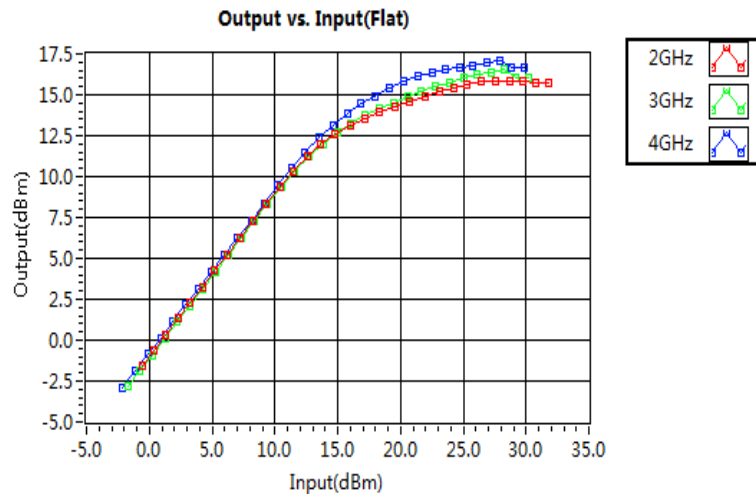
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Output VSWR @+85°C



Flat Leakage Power

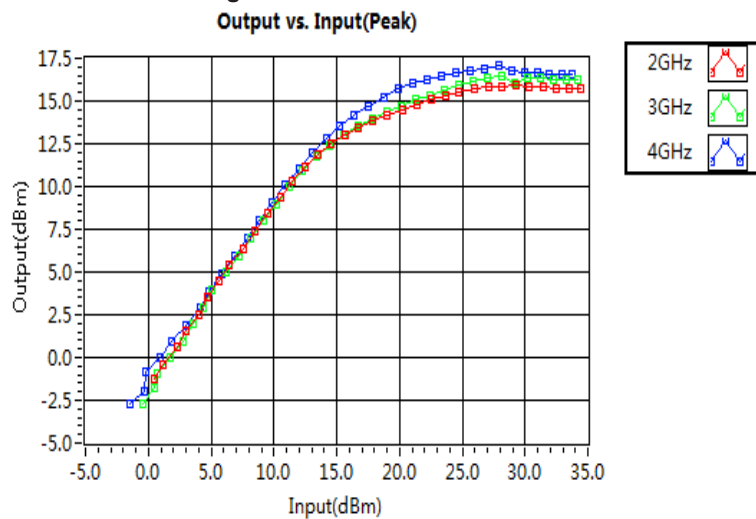


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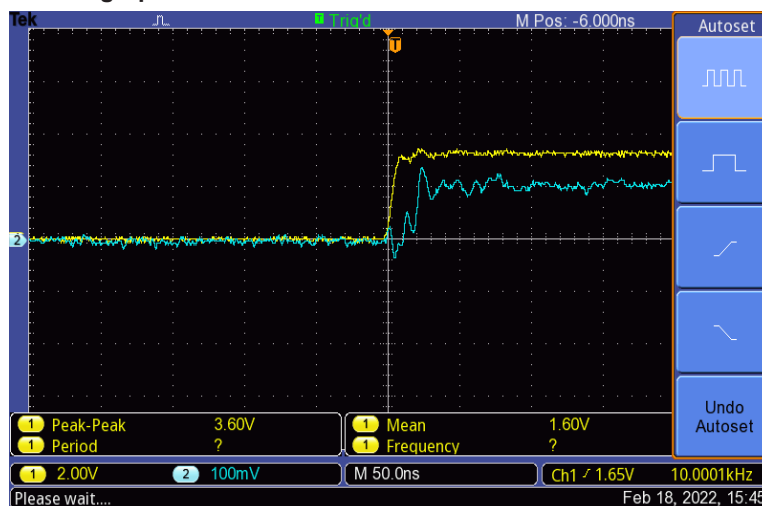


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Peak Power Leakage



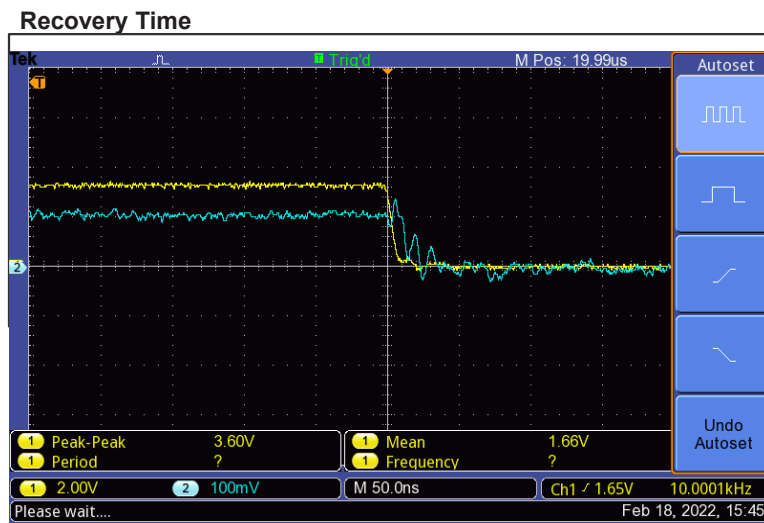
Limiting Speed



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2.92mm High Power Limiter, 2 GHz to 26 GHz, 10W Peak Power, 18 dBm Flat Leakage 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: [2.92mm High Power Limiter, 2 GHz to 26 GHz, 10W Peak Power, 18 dBm Flat Leakage FMLM2014](#)

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URL: <https://www.fairviewmicrowave.com/high-power-limiter-2.92mm-10w-peak-power-18-dbm-flat-leakage-2-to-26-ghz-fmlm2014-p.aspx>

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FMLM2014 CAD Drawing
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