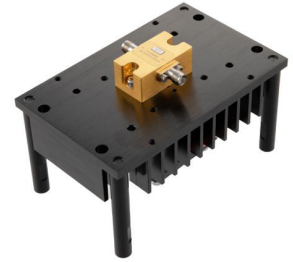


SMA High Power Limiter, 2 GHz to 4 GHz, 100W Peak Power, 18 dBm Flat Leakage

FMLM2017



Features

- 2 GHz to 4 GHz Frequency Range
- 1.1dB Insertion Loss max.
- VSWR 1.5:1
- Leakage @ 1 Watt CW +18 dBm Max
- Peak Power Leakage +18 dBm
- +200 Watt Peak Input Power
- Field Replaceable SMA Connectors
- Heatsink Attached

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 FMLM2017 is a Signal Limiter that operates in the 2 GHz to 4 GHz frequency range. The Limiter has a 18 dBm max leakage output power level and +200 Watt peak input power. Typical performance includes 1.1 dB max insertion loss, 1.5:1 typical input VSWR. The low profile pin package supports field replaceable SMA 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		4	GHz
Insertion Loss		0.9	1.1	dB
Input VSWR		1.4:1	1.5:1	
Output VSWR		1.4:1	1.5:1	
Leakage (CW) @ 1 Watt CW			+18	dBm
Leakage (Peak)			+18	dBm
Input Power (Peak) @500us pulse, 15% Duty Cycle			100	Watt

Mechanical Specifications

Size

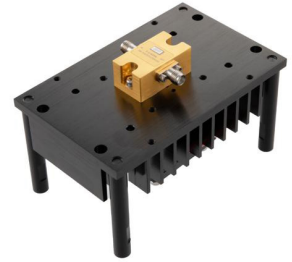
Length	1.26 in [32 mm]
Width	0.71 in [18.03 mm]
Height	0.55 in [13.97 mm]
Weight	0.77 lbs [349.27 g]
Body Material and Plating	Copper

Configuration

Style	High Power Limiter
Connector 1	SMA Female
Connector 2	SMA 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)

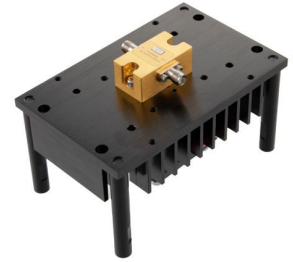
Plotted and Other Data

Notes:

Values at 25°C, sea level.

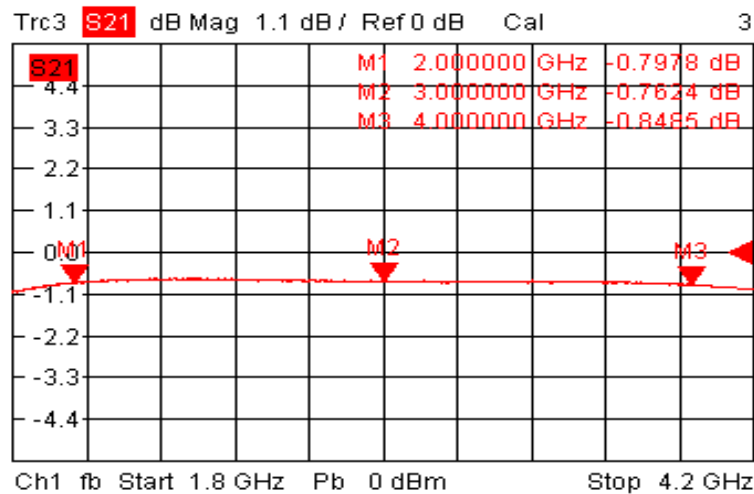
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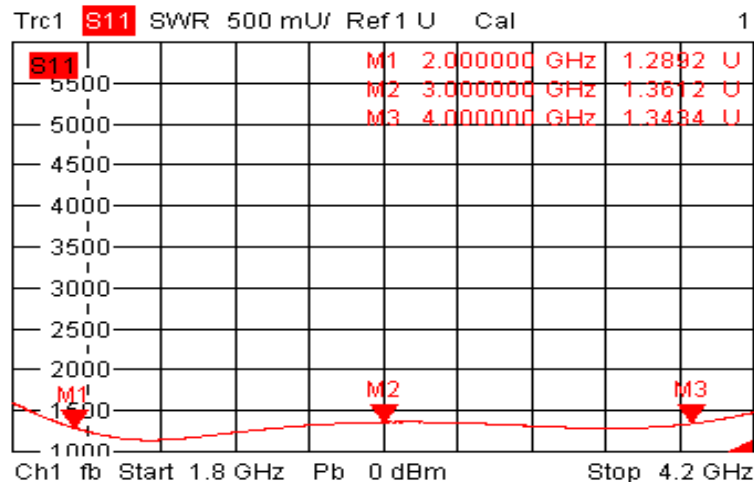


Typical Performance Data

Insertion Loss @+25°C

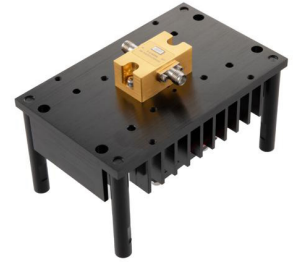


Input VSWR @+25°C

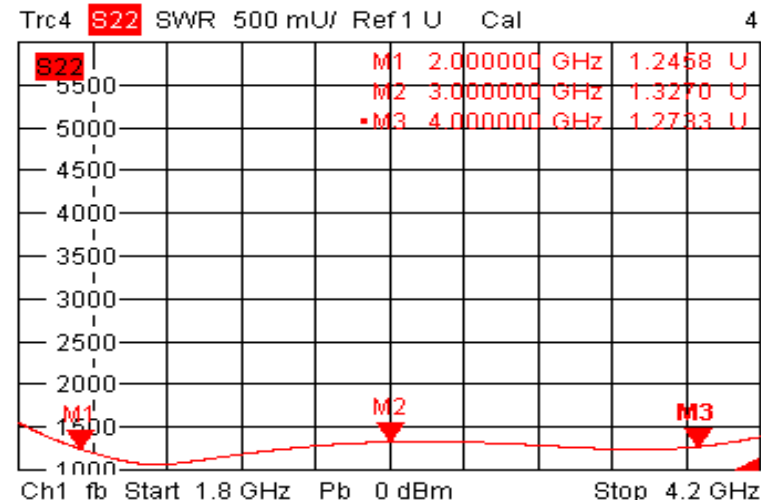


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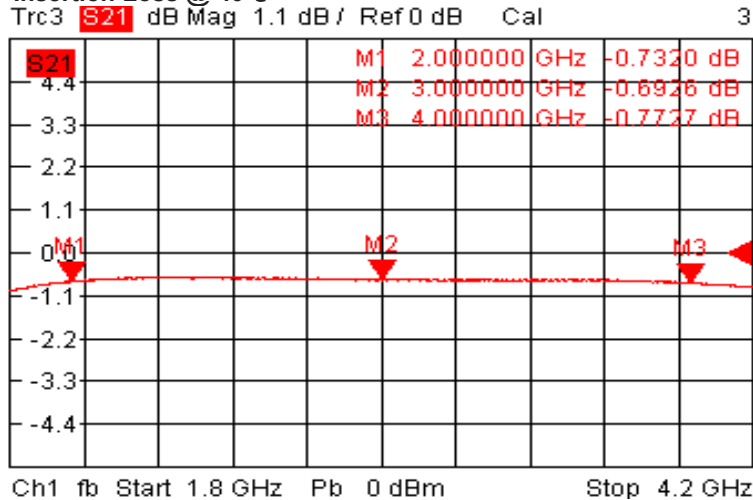
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Output VSWR @+25°C

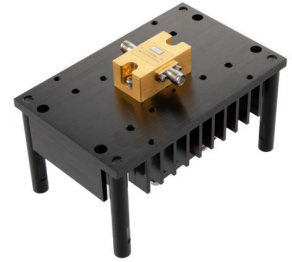


Insertion Loss @-40°C

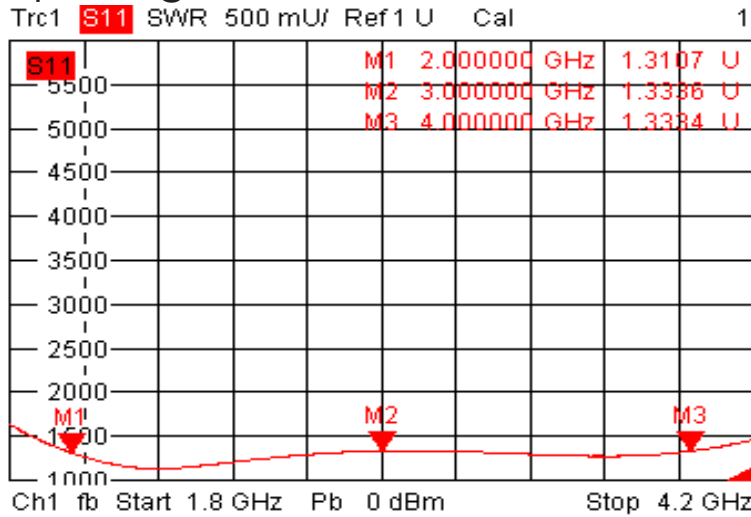


SMA High Power Limiter, 2 GHz to 4 GHz,
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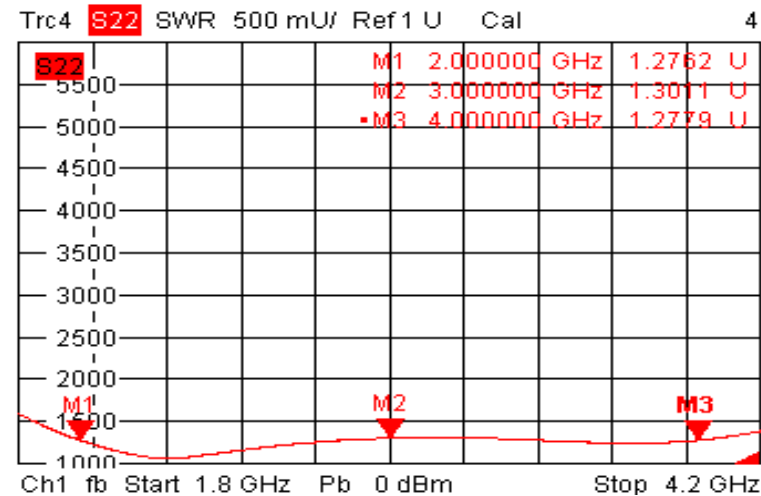
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Input VSWR @-40°C

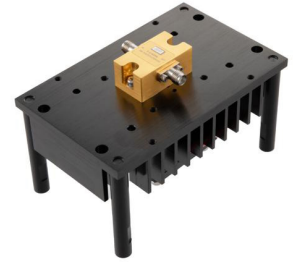


Output VSWR @-40°C

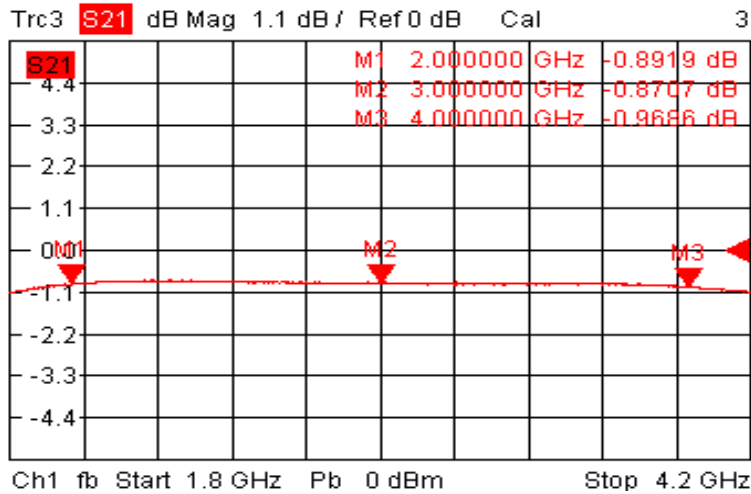


SMA High Power Limiter, 2 GHz to 4 GHz,
100W Peak Power, 18 dBm Flat Leakage

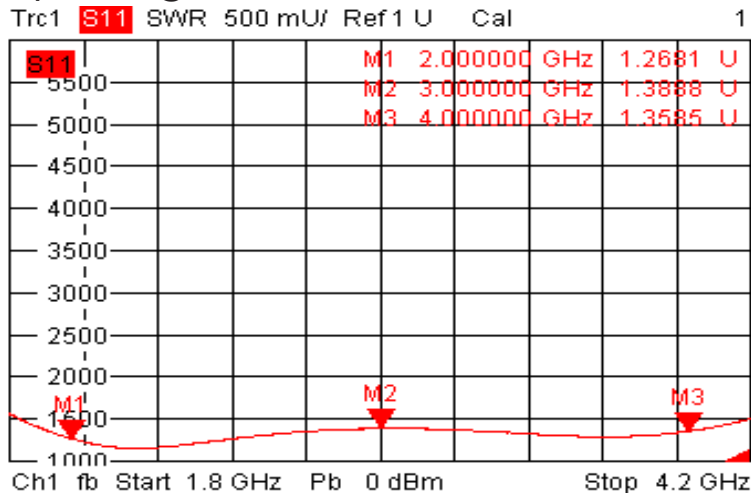
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Insertion Loss @+85°C

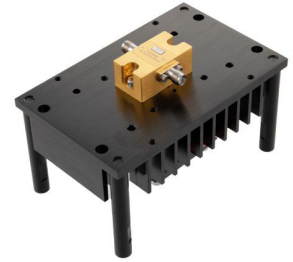


Input VSWR @+85°C

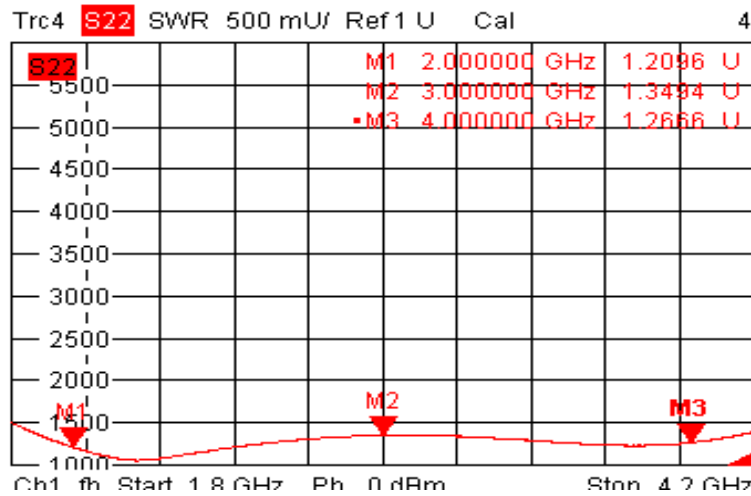


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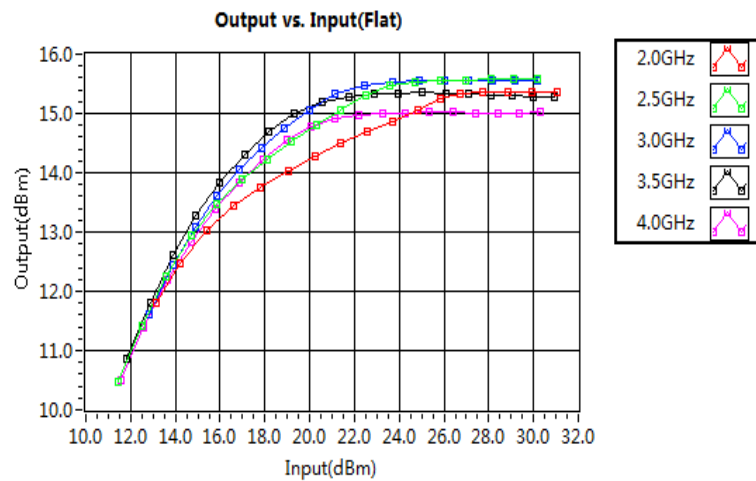
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Output VSWR @+85°C

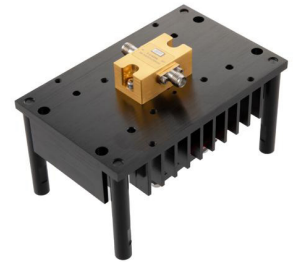


Flat Leakage Power

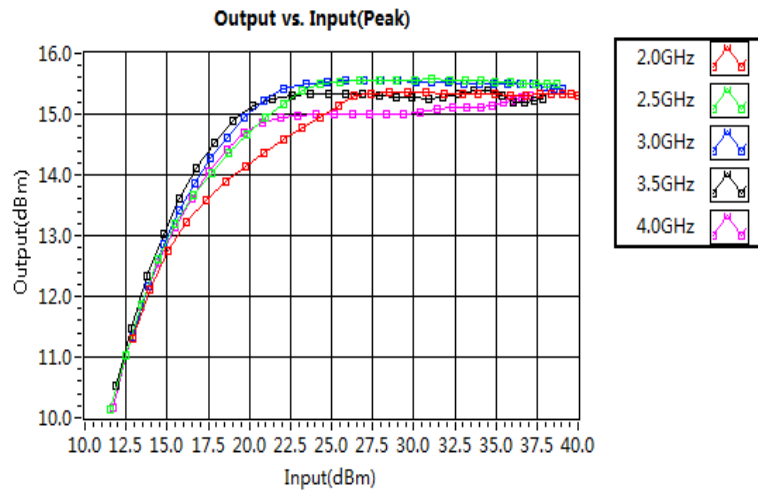


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Peak Power Leakage

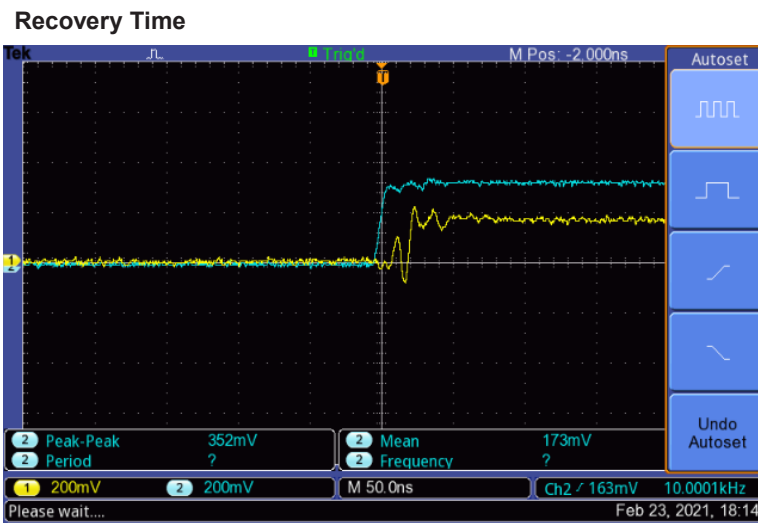
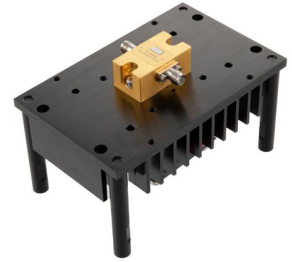


Limiting Speed



SMA High Power Limiter, 2 GHz to 4 GHz,
100W Peak Power, 18 dBm Flat Leakage

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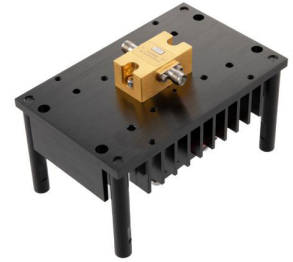


SMA High Power Limiter, 2 GHz to 4 GHz, 100W Peak Power, 18 dBm Flat Leakage from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA High Power Limiter, 2 GHz to 4 GHz, 100W Peak Power, 18 dBm Flat Leakage FMLM2017](#)

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100W Peak Power, 18 dBm Flat Leakage

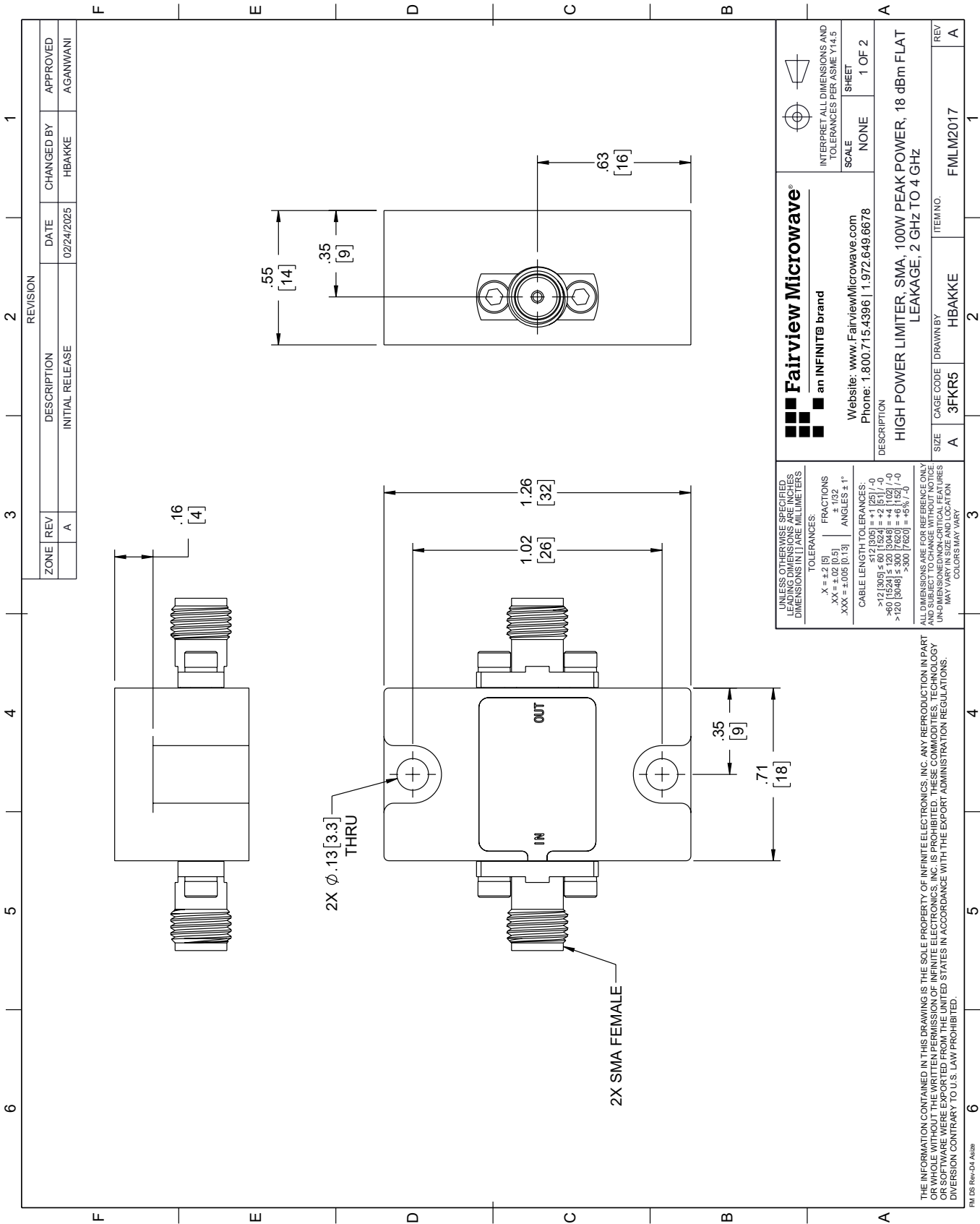
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URL: <https://www.fairviewmicrowave.com/high-power-limiter-sma-100w-peak-power-18-dbm-flat-leakage-2-to-4-ghz-fm-lm2017-p.aspx>

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.

FMLM2017 CAD Drawing
SMA High Power Limiter, 2 GHz to 4 GHz, 100W Peak Power, 18 dBm Flat Leakage



FMLM2017 CAD Drawing
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