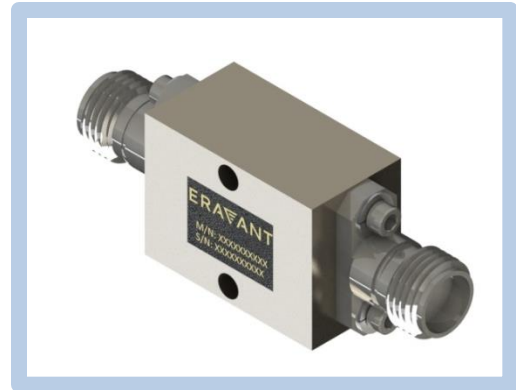


## Electrical Limiter, 2 to 18 GHz, 2 dB Insertion Loss, +20 dBm Leakage Power

### Description:

**Model SKL-2021832037-SFSF-D2** is an electrical limiter that utilizes a high-performance GaAs Schottky diode MMIC chip to offer high performance power-limiting function. The limiter can handle RF power up to +37 dBm (CW) with a +20 dBm typical leakage power to protect power sensitive components, such as mixers, low noise amplifiers, switches etc. The limiter supports wide band operation from 2 to 18 GHz and offers a typical insertion loss of 2 dB. The RF connectors are female SMA connectors. Other port configurations, such as 2.92 mm connectors are readily available under different model numbers.



### Features:

- Wide Band Coverage
- Low Insertion Loss
- High Input Power Handling

### Applications:

- Receiver Systems
- Communication systems
- Test Equipment

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency	2 GHz		18 GHz
Insertion Loss		2 dB	
Return Loss		12 dB	
Leakage Power		+20 dBm	
RF Input Power (CW)			+37 dBm
Peak Power @1 % Duty Cycle, 1 $\mu$ s Pulse-Width			550 W
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

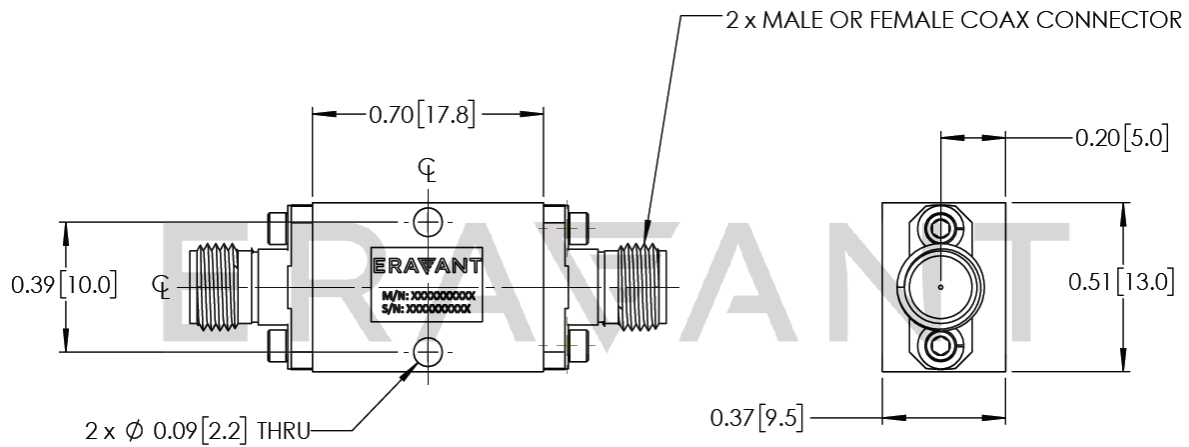
Item	Specification
Input	SMA(F)
Output	SMA(F)
Case Material	Aluminum
Finish	Nickel Plated
Weight	1.8 Oz
Size	0.70" (L) X 0.51" (W) X 0.37" (H)
Outline	KL-C6-Z1





## Electrical Limiter, 2 to 18 GHz, 2 dB Insertion Loss, +20 dBm Leakage Power

**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**Note:**

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

