SKL-0621831643-SFSF-S1-M

Electrical Limiter, 6 to 18 GHz, +16 dBm Leakage

SKL-0621831643-SFSF-S1-M is a broadband RF limiter that utilizes a high-performance GaAs Schottky diode MMIC chip that can limit input power up to +43 dBm with a leakage of +16 dBm. The limiter's function is to prevent damage to sensitive components, such as mixers, low noise amplifiers, switches, etc. from excessive input power. The input and output ports are SMA connectors. Other RF connector types are offered under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency	6 GHz		18 GHz
Insertion Loss		2 dB	
Return Loss		10 dB	
Leakage			+16 dBm
P_{in}			+43 dBm
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Input Connector	SMA (F)
Output Connector	SMA (F)
Case Material	Aluminum
Finish	Gold Plated Body, Black Anodized Cover
Weight	0.6 Oz
Outline	UH-120-2C

ECCN

EAR99

FEATURES

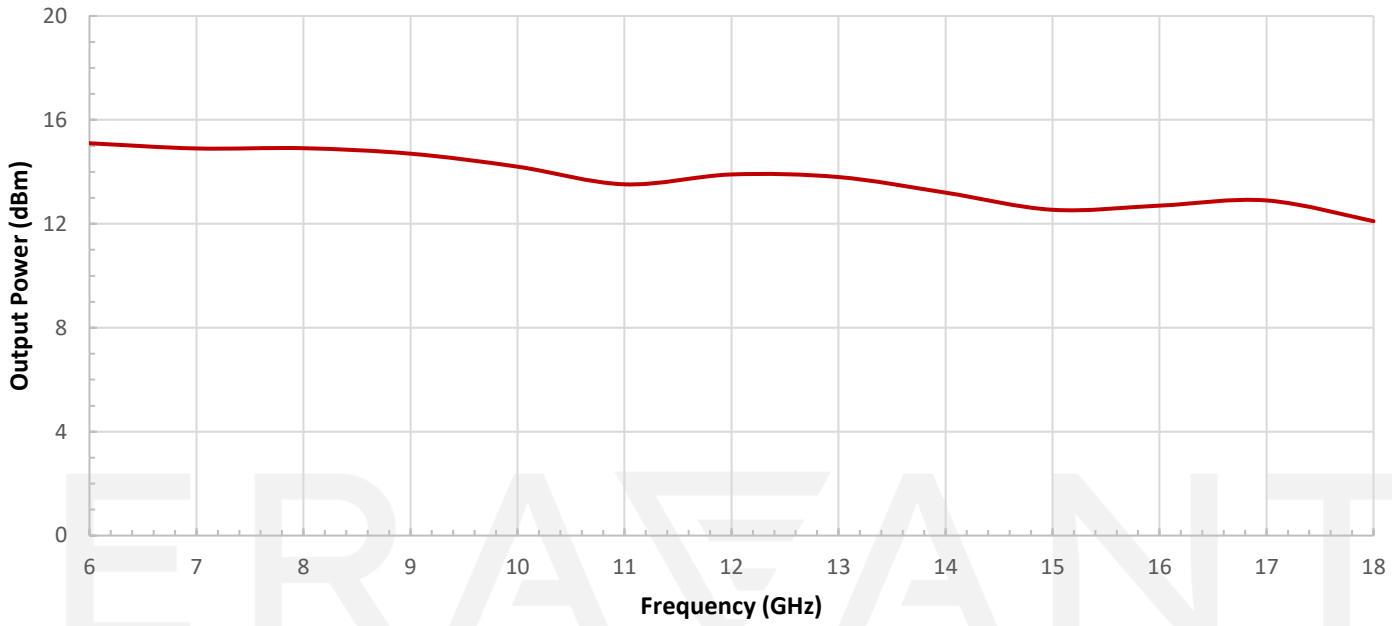
- Broadband Coverage
- Low Insertion Loss
- High Input Power Handling
- Flat Leakage

APPLICATIONS

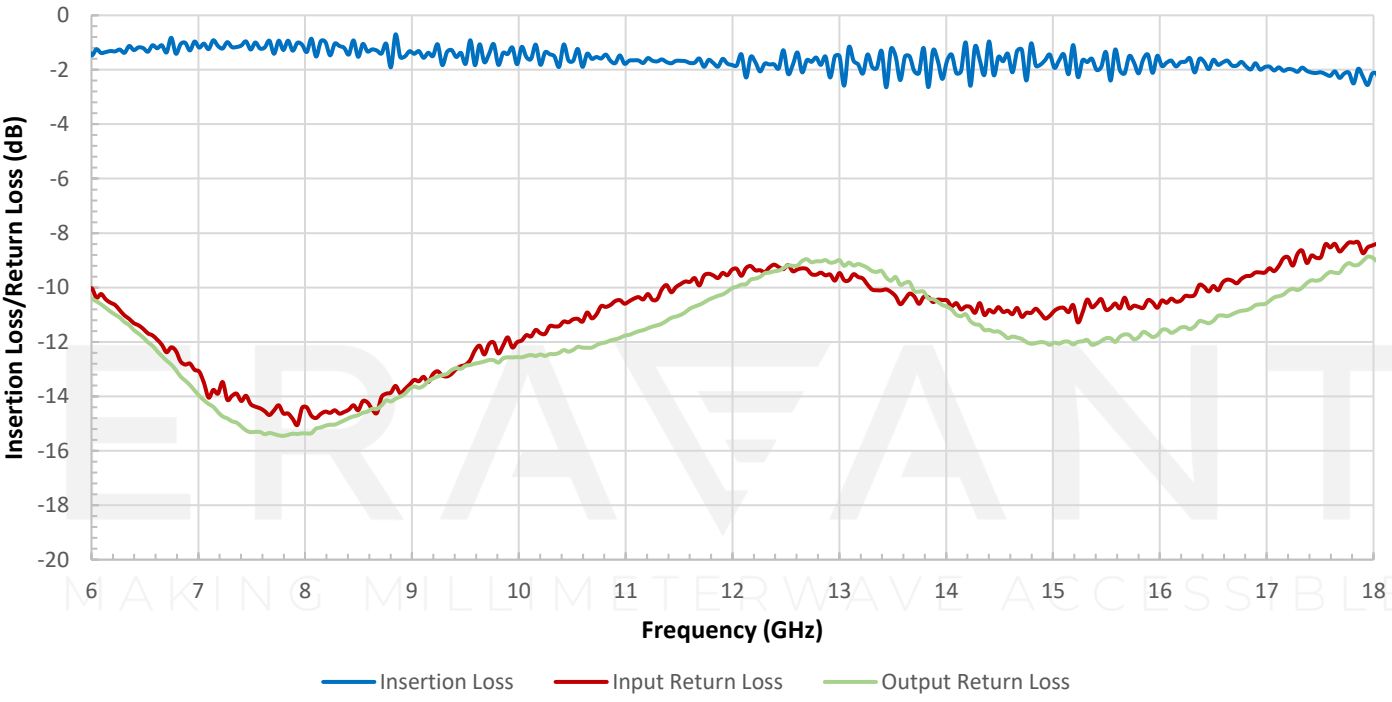
- Power Sensitive Equipment/Component Protection

Typical Output Power vs. Frequency

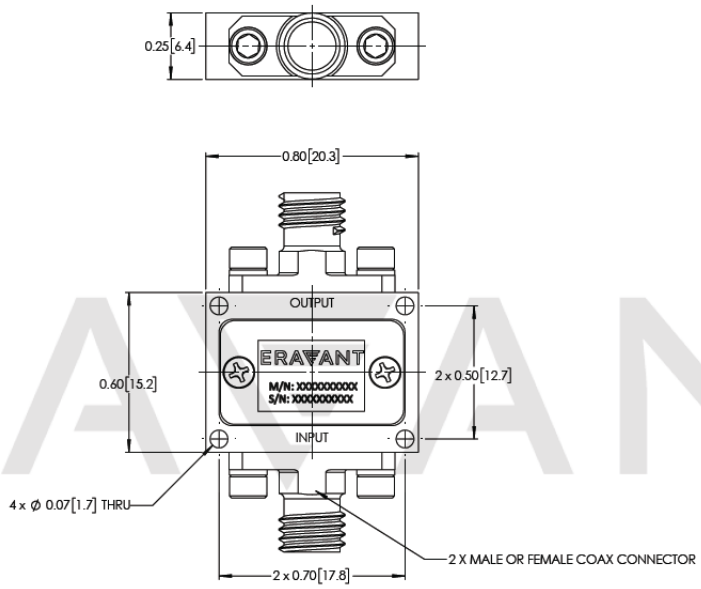
Input Power: +20 dBm



Typical Performance vs. Frequency



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Other input/output connector type combinations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings will damage the device.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.