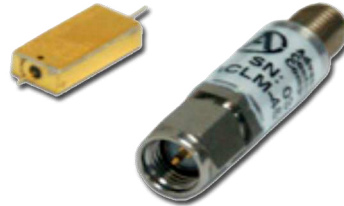# ACLM-4637
Pin Diode Limiter

Features:

- Built to protect sensitive circuit elements such as receiver front ends or detectors.

- Reduce high power inputs to a low level that can be tolerated by the next component.

- Handle up to 100W peak power levels and cover the frequency range form 100MHz to 26GHz.

- Custom models with higher power handling are available.

Specifications:

Parameter	Specification	Units
Frequency Range (min)	0.1 – 4	GHz
Peak Input Power (max)	100	W
CW Input Power (max)	2	W
Peak Flat Leakage (max)	20	dBm
CW Flat Leakage (max)	17	dBm
Insertion Loss (max)	0.5	dB
VSWR (max)	1.4:1	ratio

Notes:

CW Leakage is measured at 1W input

Up to 1KW peak power handling is available. Insertion loss and VSWR will degrade slightly.

Power handling is linearly derated from full power at 25°C to zero power at +150°C

Environmental Specifications:

Designed to meet:

MIL-E-5400, MIL-STD-202, MIL-E-16400

Operating Temp: -55°C to +125°C

Storage Temp: -65°C to +150°C

Humidity: MIL-STD-202F, M103, Cond B

Shock: MIL-STD-202F, M213, Cond B

Altitude: MIL-STD-202F, M105, Cond B

Vibration: MIL-STD-202F, M204, Cond B

Thermal Shock: MIL-STD-202F, M107, Cond A

Temperature Cycle: MIL-STD-202F, M105C, Cond D

SCREENING:

Internal Visual per MIL-STD-883, Method 2017

Temperature Cycle: -65°C to +100°C, 10 cycles

OPTIONAL HIGH-REL SCREENING (Ref MIL-PRF-38534):

Stabilization Bake per MIL-STD-883, Method 1008

Temperature Cycle per MIL-STD-883, Method 1010

Constant Acceleration per MIL-STD-883, Method 2001
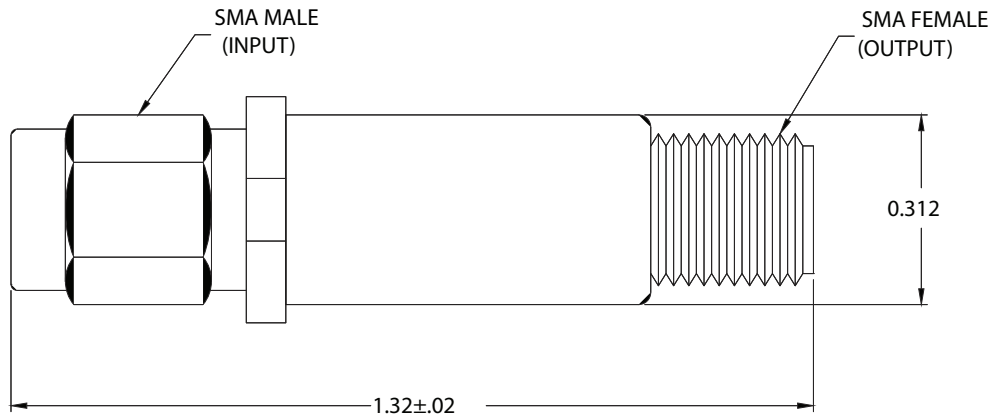
Burn-in per MIL-STD-883, Method 1015

Leak Test per MIL-STD-883, Method 1014

External Visual per MIL-STD-883, Method 2009

AEROFLEX
CONTROL COMPONENTS

SMA MALE
(INPUT)

SMA FEMALE
(OUTPUT)

0.312

1.32±.02

STANDARD CASE STYLE C3
(Optional Case Styles – C36, C37, M22)

Part Number Ordering Information:

- Add desired case style suffix: "C3" (Ex: ACLM-4637C3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-4637C3R) (SMA Female Input/SMA Male Output)
- Add "1K" suffix: High power handling version: (Ex: ACLM-4637C3R1K)
- Add "-RC" suffix: RoHS-compliant (Ex: ACLM-4637C3R1K-RC)

ISO 9001:2008 certified

![AEROFLEX A passion for performance.]

Our passion for performance is defined by three
attributes represented by these three icons:
solution-minded, performance-driven and customer-focused.