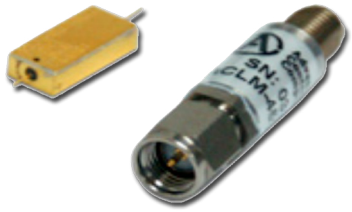
ACLM-4540
Pin Diode Limiter

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.
- Custom models with higher power handling are available.



Specifications:

Parameter	Specification	Units
Frequency Range (min)	2 – 8	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)	1.0	dB
VSWR (max)	1.5:1	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
SIGNAL & CONTROL SOLUTIONS

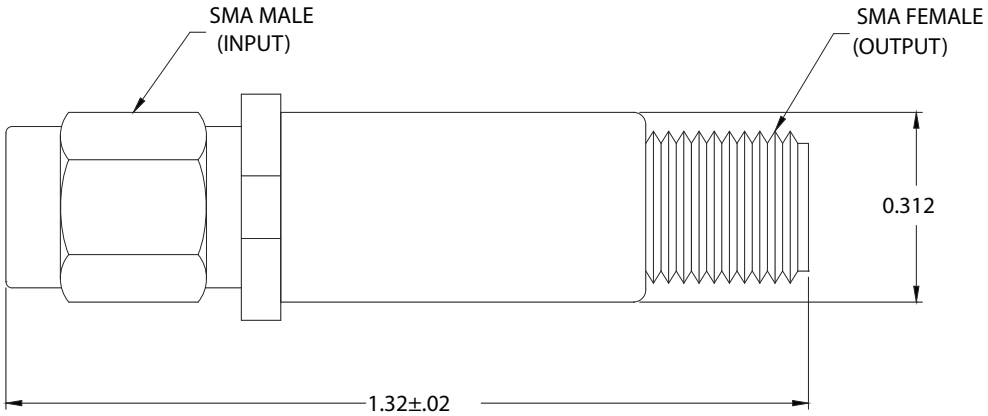
40 Industrial Way East, Eatontown , NJ 07724 [USA]
Phone: (732) 460-0212, Fax: (732) 460-0214
www.aeroflex.com/ascs, email: ascs-sales@aeroflex.com

Revision Date: 12/9/2013

AEROFLEX
SIGNAL & CONTROL SOLUTIONS

ACLM-4540
Pin Diode Limiter

Outline Drawing:



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

Part Number Ordering Information:

- Add desired case style suffix: "C3" (Ex: ACLM-4540C3)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-4540C3R) (SMA Female Input/SMA Male Output)
- Add "1K" suffix: High power handling version: (Ex: ACLM-4540C3R1K)
- Add "-RC" suffix: RoHS-compliant (Ex: ACLM-4540C3R1K-RC)

Aeroflex Signal & Control Solutions
Aeroflex Microelectronic Solutions
40 Industrial Way East
Eatontown , NJ 07724 [USA]
Fax: (732) 460-0214

Sales
Phone: (732) 460-0212
ASCS-sales@aeroflex.com

www.aeroflex.com/Microwave www.aeroflex.com/ASCS

ISO 9001:2008 certified

AEROFLEX
A passion for performance.

Aeroflex Signal & Control Solutions reserves the right to make changes to any products and services herein at any time without notice. Consult Aeroflex or an authorized sales representative to verify that the information in this data sheet is current before using this product. Aeroflex does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by Aeroflex; nor does the purchase, lease, or use of a product or service from Aeroflex convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual rights of Aeroflex or of third parties.

Copyright 2013 Aeroflex Signal & Control Solutions. All rights reserved.

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

Revision Date: 12/9/2013