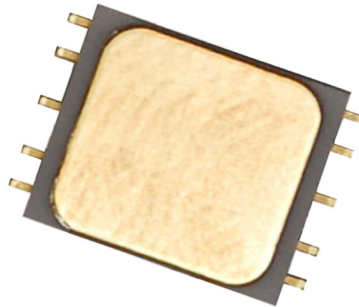


# ACLM-4812F

## Low Leakage Limiter



### Features:

- Limits input power levels of 10W CW
- Operating temperature range of -55 ° C to +85 ° C
- Offered in drop in and surface mount packages
- Coaxial configurations available upon request

### Specifications:

| Parameter              | Specification              | Units |
|------------------------|----------------------------|-------|
| Frequency Range (min)  | 0.020 – 3.0                | GHz   |
| Peak Input Power (max) | 1000 (1uS pw, 0.1%DC)      | W     |
| CW Input Power (max)   | 10                         | W     |
| CW Flat Leakage (max)  | 12.5 (DEFINED AT 1W INPUT) | dBm   |
| Insertion Loss (max)   | 1.0                        | dB    |
| VSWR (max)             | 1.4:1                      | ratio |

### Notes:

CW Leakage is measured at 1W input

### Screening:

Internal Visual per MIL-STD-883, Method 2017  
 Temperature Cycle: -65°C to +100°C, 10 cycles

### Features:

- Low Insertion Loss
- Low Leakage Power Circuit Protection
- High CW Power Handling
- Hermetically Sealed Modules

### 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  
 External Visual per MIL-STD-883, Method

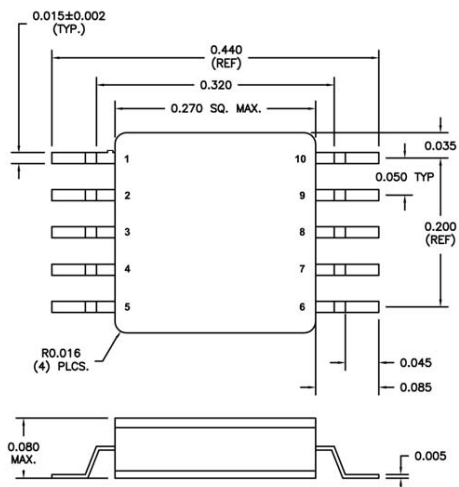
### Environmental Specifications:

MIL-E-5400, MIL-STD-202, MIL-E-16400  
 Operating Temp: -55 °C to +85 °C  
 Storage Temp: -65 °C to +125 °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

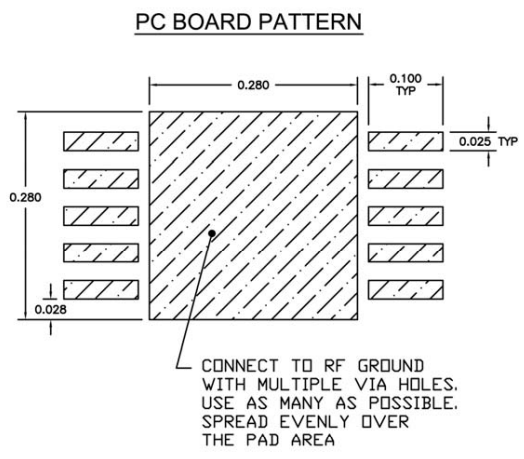


611 Industrial Way, Eatontown, NJ 07724 [USA]  
 Phone: (732) 460-0212, Fax: (732) 460-0214  
 www.aeroflex.com/acc, email: acc-sales@aeroflex.com

**Outline Drawing:**



| PIN | CONNECTION | PIN | CONNECTION |
|-----|------------|-----|------------|
| 1   | GND        | 10  | GND        |
| 2   | INPUT      | 9   | OUTPUT     |
| 3   | INPUT      | 8   | OUTPUT     |
| 4   | GND        | 7   | GND        |
| 5   | N/C        | 6   | N/C        |



NOTES:  
1. DIMENSIONS ARE IN INCHES  
2. PAD WIDTH IS SHOWN FOR SOLDERING ONLY. BEYOND SOLDERING AREA ALL CONDUCTORS THAT CARRY RF AND MICROWAVE SIGNALS SHOULD HAVE 50 OHM CHARACTERISTIC IMPEDANCE.

STANDARD CASE STYLE M16  
(OPTIONAL CASE STYLES C36, C37)


**Part Number Ordering Information:**

- Add desired case style suffix: "M16" (Ex: ACLM-4812FM16)
- Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-4812FM16R) (SMA Female Input/SMA Male Output)
- Add "-RC" suffix: RoHS-compliant (Ex: ACLM-4812FM16R1K-RC)

**Aeroflex Control Components**  
Aeroflex Microelectronic Solutions  
611 Industrial Way  
Eatontown, NJ 07724 [USA]  
Fax: (732) 460-0214

ISO 9001:2008 certified




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



**AEROFLEX**  
A passion for performance.

[www.aeroflex.com/Microwave](http://www.aeroflex.com/Microwave) [www.aeroflex.com/ACC](http://www.aeroflex.com/ACC)

Aeroflex Control Componen. 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.

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

Copyright 2011 Aeroflex Control Components. All rights reserved.