ACLM-4932

Coaxial High Power Limiter

Data Sheet Revision Date: 12/22/2015

The most important thing we build is trust

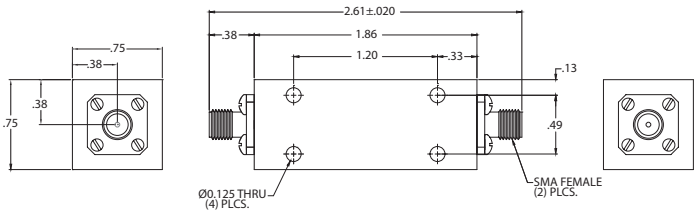
DESCRIPTION:

This series of high power limiters was developed to protect sensitive receiver circuits from close proximity threats (e.g. high power radar or communication transmitters). The standard models handle up to 60W CW while the higher power models can handle up to 100W CW. All models handle 1000W peak and exhibit low insertion loss and leakage levels. The limiters are available in either type N (male-to-male) or SMA connector versions.

SPECIFICATIONS:

Parameter	Standard	H Option	Unit of Measure
Frequency Range (min)	2.0 – 1500	2.0 – 1500	MHz
Peak Input Power (max)	1.0	1.0	kW
CW Input Power (max)	60.0	100.0	W
Flat Leakage (CW Power) (max)	14.0	14.0	dBm
Insertion Loss (max)	0.25	0.25	dB
VSWR (max)	1.25:1	1.25:1	ratio

OUTLINE DRAWING:



(TYPICAL WEIGHT = 46.0g)

FEATURES:

- Low Insertion Loss
- Low Leakage Power Circuit Protection
- High CW Power Handling
- Assorted Package Styles

STANDARD CASE STYLE C46
(Optional Case Styles – C24, C25, C88, C89, M70)

NOTES:

Test conditions: Full rated power for 10 seconds.

Insertion loss is slightly higher for the high power versions.

Most models are broadband and will operate beyond the frequency ranges shown.

Typical leakage is 3dB below the maximum shown.

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

All models require external DC blocks for proper operation.

SCREENING:

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

External Visual per MIL-STD-883, Method 2009

ENVIRONMENTAL SPECIFICATIONS*:

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

* Compliant by design, verification optional

PART NUMBER ORDERING INFORMATION:

Add desired case style suffix: "C46" (Ex: ACLM-4869C46)

Add "R" suffix: Reverse Connector Configuration (Ex: ACLM-4869C25R) (SMA Female Input/SMA Male Output)

Add "H" suffix: High power handling version: (Ex: ACLM-4869HC25R)

Add "-RC" suffix: RoHS-compliant (Ex: ACLM-4869HC25-RC)

ISO 9001:2008 and AS9100 certified

For further information please contact:

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