

PIN DIODE LIMITERS

PIN diode limiters are built to protect sensitive circuit elements such as receiver front ends or detectors. They reduce high power inputs to a low level that can be tolerated by the next component. Limiters may be categorized as conventional or feedback types. The family of conventional limiters typically exhibits leakage levels up to +20dBm with recovery times less than 40nsec. These models handle up to 100W peak power levels and cover the frequency range from 100MHz to 26GHz. Custom models with higher power handling are available.



Features:

- Low Insertion Loss
- Low Leakage Power Circuit Protection
- High CW Power Handling
- Hermetically Sealed Modules
- Assorted Package Styles
- Custom Designs Available

Frequency Range (GHz)	Part Number	Peak Input Power	CW Input Power	Maximum Flat Leakage (Peak Power)	Maximum Flat Leakage (CW Power)	Maximum Insertion Loss	Maximum VSWR	Standard Case Styles	Optional Case Styles
		(Watts) *(3)	(Watts) *(2,3)	(+dBm)	(+dBm) *(1)	(dB)			
0.1 - 1.1	ACLM4538	100	2	20	18	0.4	1.4:1	C3	C36,C37,M22
0.5 - 2	ACLM4530	100	2	20	18	0.4	1.4:1	C3	C36,C37,M22
0.1 - 4	ACLM4637	100	2	20	17	0.5	1.4:1	C3	C36,C37,M22
1 - 4	ACLM4581	100	2	20	17	0.5	1.4:1	C3	C36,C37,M22
2 - 4	ACLM4531	100	2	20	17	0.5	1.4:1	C3	C36,C37,M22
0.5 - 6	ACLM4700	100	2	20	17	0.7	1.5:1	C3	C36,C37,M22
2 - 8	ACLM4540	100	2	20	17	0.7	1.5:1	C3	C36,C37,M22
0.5 - 8	ACLM4606	100	2	20	17	0.8	1.5:1	C3	C36,C37,M22
1 - 8	ACLM4597	100	2	20	17	0.8	1.5:1	C3	C36,C37,M22
4 - 8	ACLM4532	100	2	20	17	0.8	1.5:1	C3	C36,C37,M22
2 - 12	ACLM4535	100	2	21	18	1.5	1.6:1	C3	C36,C37,M22
8 - 12	ACLM4533	100	2	21	18	1.5	1.6:1	C3	C36,C37,M22
0.5 - 18	ACLM4601	100	1	21	18	1.8	1.9:1	C36	C37,M22
2 - 18	ACLM4537	100	1	21	18	1.8	1.9:1	C36	C37,M22
8 - 18	ACLM4539	100	1	21	18	1.8	1.9:1	C36	C37,M22
18 - 26	ACLM4765	100	1	23	21	2.5	2.0:1	C36	M22

NOTES:

- 1) CW leakage is measured at 1W input.
- 2) Higher power handling available. Contact the factory to discuss specific requirements.
- 3) Power handling is linearly derated from full power at +25°C to zero power at +150°C.

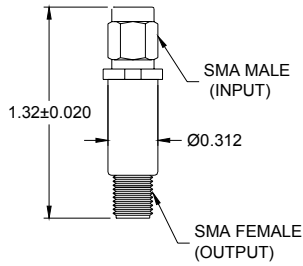


ENVIRONMENTAL SPECIFICATIONS:

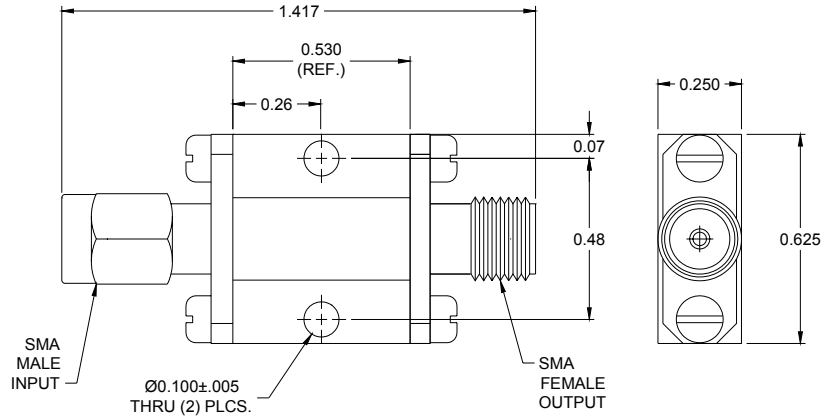
MIL-E-5400, MIL-STD-202, MIL-E-16400
 Operating Temp: -65°C to +125°C
 Storage Temp: -65°C to +150°C
 Humidity: MIL-STD-202F, M103, Cond B
 Shock: MIL-STD-202F, M213, Cond B
 Altitude: MIL-STD-202F, M105, Cond B
 Vibration : MIL-STD-202F, M204, Cond B
 Thermal Shock: MIL-STD-202F, M107, Cond A
 Temperature Cycle: MIL-STD-202F, M105C, Cond D

SCREENING :

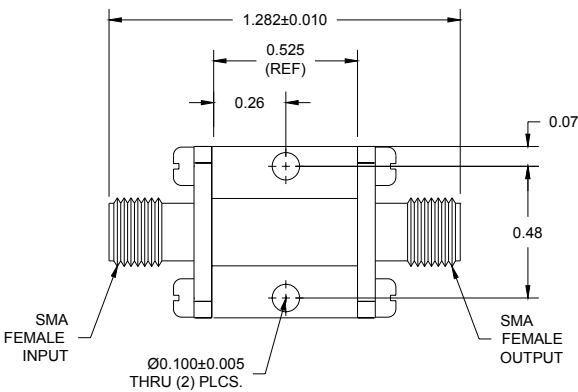
Standard Screening:
 Internal Visual per MIL-STD-883, Method 2017
 Temperature Cycle: -65°C to +100°C, 10 cycles
Optional High-Rel Screening (Ref MIL-PRF-38534):
 Internal Visual per MIL-STD-883, Method 2017
 Stabilization Bake per MIL-STD-883, Method 1008
 Temperature Cycle per MIL-STD-883, Method 1010
 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



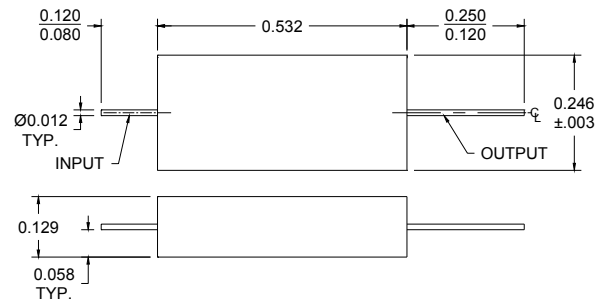
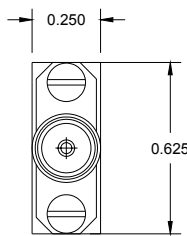
CASE STYLE C3



CASE STYLE C36



CASE STYLE C37



CASE STYLE M22

Part Number Ordering Information:

Example: ACLM4533C3R1K
 ACLM4533: Conventional limiter, 8 – 12GHz
 C3: Package type
 R: Reversed connectors (omit for standard configuration)
 1K: 1kW peak power handling (omit for standard 100W peak power handling)