



# COAXIAL HIGH POWER LIMITERS

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.



## Features:

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

Available in 100W CW

Frequency Range (MHz)	Part (1) Number	Peak Input Power (kW) *(5)	CW Input Power (Watts) *(1,5)	Maximum Flat Leakage (CW Power) (+dBm)	Maximum Insertion Loss (dB)	Maximum VSWR	Standard Case Styles	Optional Case Styles
0.5 - 30	ACLM4869	1	60	14	0.1	1.25:1	C46	C24,C25,C88,C89
30 - 100	ACLM4870	1	60	14	0.1	1.25:1	C46	C24,C25,C88,C89
10 - 500	ACLM4827	1	60	14	0.1	1.25:1	C46	C24,C25,C88,C89
100 - 500	ACLM4930	1	60	14	0.2	1.25:1	C25	C24,C46,C88,C89
100 - 1000	ACLM4871	1	60	14	0.2	1.28:1	C46	C24,C25,C88,C89
200 - 1000	ACLM4903	1	60	14	0.2	1.28:1	C46	C24,C25,C88,C89
1200 - 1400	ACLM4603	1	60	14	0.25	1.25:1	C46	C24,C25,C88,C89
2 - 1500	ACLM4932	1	60	14	0.25	1.25:1	C46	C24,C25,C88,C89
200 - 1500	ACLM4904	1	60	14	0.25	1.25:1	C46	C24,C25,C88,C89
0.1 - 2000	ACLM4897	1	60	14	0.3	1.25:1	C46	C24,C25,C88,C89
1 - 2000	ACLM4874	1	60	14	0.3	1.25:1	C46	C24,C25,C88,C89
20 - 2000	ACLM4924	1	60	13	0.35	1.25:1	C46	C24,C25,C88,C89
500 - 2000	ACLM4947	1	60	14	0.35	1.25:1	C46	C24,C25,C88,C89
1000 - 2000	ACLM4851	1	60	14	0.35	1.25:1	C46	C24,C25,C88,C89
2 - 2500	ACLM4918	1	60	13	0.38	1.25:1	C24	C25,C46,C88,C89
0.1 - 3000	ACLM4896	1	60	13	0.4	1.25:1	C46	C24,C25,C88,C89
500 - 3000	ACLM4829	1	60	13	0.5	1.25:1	C46	C24,C25,C88,C89
2000 - 3000	ACLM4828	1	60	13	0.5	1.25:1	C46	C24,C25,C88,C89
600 - 3100	ACLM4891	1	60	13	0.5	1.25:1	C25	C24,C46,C88,C89
2700 - 3100	ACLM4852	1	60	13	0.5	1.25:1	C24	C25,C46,C88,C89
3000 - 3700	ACLM4905	1	60	13	0.8	1.9:1	C24	C25,C46,C88,C89
2000 - 4000	ACLM4943	1	60	13	1.2	2.0:1	C46	C24,C25,C88,C89

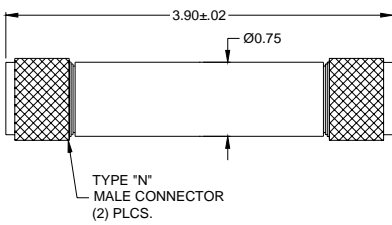
## NOTES:

- 1) All models rated for 60W CW are available as 100W CW versions. The part number requires the suffix "H" added following the part number to indicate higher power rating. Refer to part number ordering information for details.
- 2) Test conditions: Full rated power for 10 seconds. For extended RF power durations, sufficient heatsinking is required.
- 3) Insertion loss is slightly higher for the high power versions.
- 4) Most models are broadband and will operate beyond the frequency ranges shown.
- 5) Typical leakage is 3dB below the maximum shown.
- 6) Power handling is linearly derated from full power at +25°C to zero power at +150°C.
- 7) All models require DC blocks for proper operation.

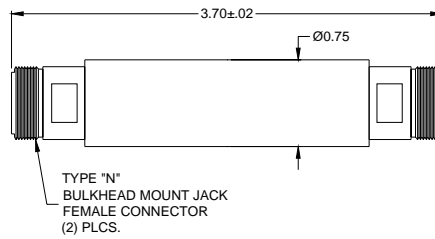


**MECHANICAL SPECIFICATIONS:**

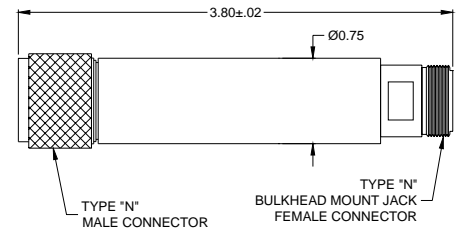
Finish: Housing: Chemical Film per MIL-C-5541  
 Connectors: Passivated Stainless Steel per MIL-PRF-39012  
 Weight: 100g max (Case styles C24, C88 and C89)  
 50g max (Case styles C25 and C46)



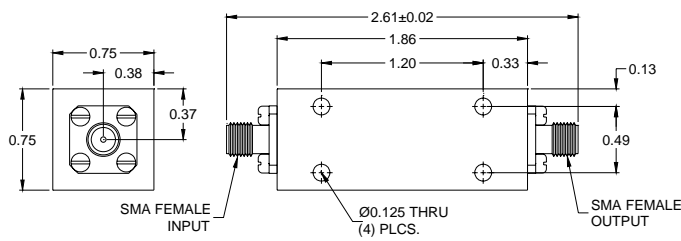
**CASE STYLE C24**



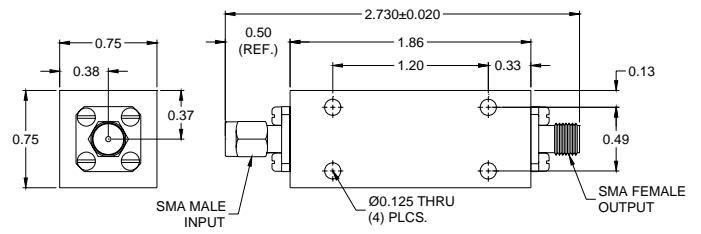
**CASE STYLE C88**



**CASE STYLE C89**



**CASE STYLE C46**



**CASE STYLE C25**

**Part Number Ordering Information:**

Example: ACLM4924HC46  
 ACLM4924: Coaxial high power limiter, 20 – 2000MHz  
 H: 100W CW power handling (omit for standard 60W CW power handling)  
 C46: Package type

LMC-0307