

# GG77317-04

Limiter, Coaxial

## **GENERAL DESCRIPTION**

100W CW broadband coaxial limiter with SMA female connectors. Four 0.125" diameter through-holes are provided for device mounting.

## **ABSOLUTE MAXIMUM RATINGS:**

Rating	Symbol	Value	Unit
Storage Temperature	T <sub>STG</sub>	-60 to +100	°C
Operating Temperature	T <sub>OP</sub>	-55 to +85	°C
RF Power Handling, CW	P <sub>CW</sub>	100 (1, 2)	W
RF Power Handling, Peak	P <sub>PK</sub>	1000 (1, 2, 3)	W

## **ENVIRONMENTAL CONDITIONS:**

This unit is designed to withstand the following environmental conditions without damage.

Test	MIL-PRF	Method	Cond.
Stabilization Bake	883	1008	В
Thermal Cycle	883	1010	В
Constant Acceleration	883	2001	A (Y1 Axis)
External Visual	883	2009	-

## **GUARANTEED PERFORMANCE +25°C:**

TEST PARAMETER	CONDITIONS	SPECIFICATION
FREQUENCY RANGE		10 – 4000MHz MIN
INSERTION LOSS	-10dBm MAX	0.4dB MAX, 10 – 2000MHz
		0.6dB MAX, 2000 – 3000MHz
		1.2dB MAX, 3000 – 4000MHz
VSWR	-10dBm MAX	1.3:1 MAX (50Ω) 10 – 2000MHz
		1.4:1 MAX (50Ω) 2000 – 3000MHz
		1.8:1 MAX (50Ω) 3000 – 4000MHz
FLAT LEAKAGE	10W CW	+13dBm MAX
P1dB		0dBm MIN
RECOVERY TIME	3dB, 10W CW	2.0usec TYPICAL

## Notes:

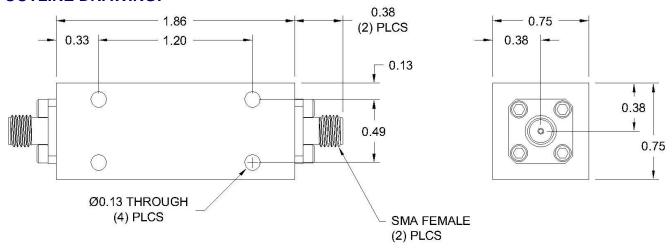
- Power rating at 25° C: derate linearly to zero at 150° C
- 2. High power test duration: full rated power for 10 seconds
- 3. High power peak conditions: 1.0kW @ 1% duty cycle, 1usec pulse width max
- 4. External DC blocks are required for proper function



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## **OUTLINE DRAWING:**





#### Outline notes:

- Case ground
- 2. Tolerances: .xx: ±0.020, .xxx: ±0.010
- 3. Housing finish: Chemical film per MIL-PRF-5541, Class 3
- 4. SMA female connectors per MIL-PRF-39012

## **OPTIONS:**

- Contact the factory for any option or custom requirement.
- 2) Connector options:
  - a. SMA male or combination of SMA male and female.
  - b. TNC male, female, or any combination of TNC male and female.
  - c. N-type male, female, or any combination of N-type male and female.
- Optimized bandwidths: Narrow bandwidths can result in improved insertion loss and vswr.
- 4) Package: Custom application-specific package styles are available upon request.

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### Revision History

Revision Level / Date	Para. Affected	Description
1 / 11 July 2013	-	Initial Release