GG77317-05

Limiter, Coaxial

GENERAL DESCRIPTION

60W 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_{STG}	-60 to +100	°C
Operating Temperature	T_{OP}	-55 to +85	°C
RF Power Handling, CW	P_{CW}	60 (1, 2)	W
RF Power Handling, Peak	P_{PK}	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	B
Thermal Cycle	883	1010	B
Constant Acceleration	883	2001	A (Y1 Axis)
External Visual	883	2009	-

GUARANTEED PERFORMANCE +25°C:

TEST PARAMETER	CONDITIONS	SPECIFICATION
FREQUENCY RANGE		10 – 6000MHz MIN
INSERTION LOSS	-10dBm MAX	0.9dB MAX, 10 – 5000MHz
		1.2dB MAX, 5000 – 6000MHz
VSWR	-10dBm MAX	2.0:1 MAX (50Ω) 10 – 5000MHz
		2.2:1 MAX (50Ω) 5000 – 6000MHz
FLAT LEAKAGE	10W CW	+13dBm MAX
P1dB		0dBm MIN
RECOVERY TIME	3dB, 10W CW	1.5usec TYPICAL

Notes:

1. 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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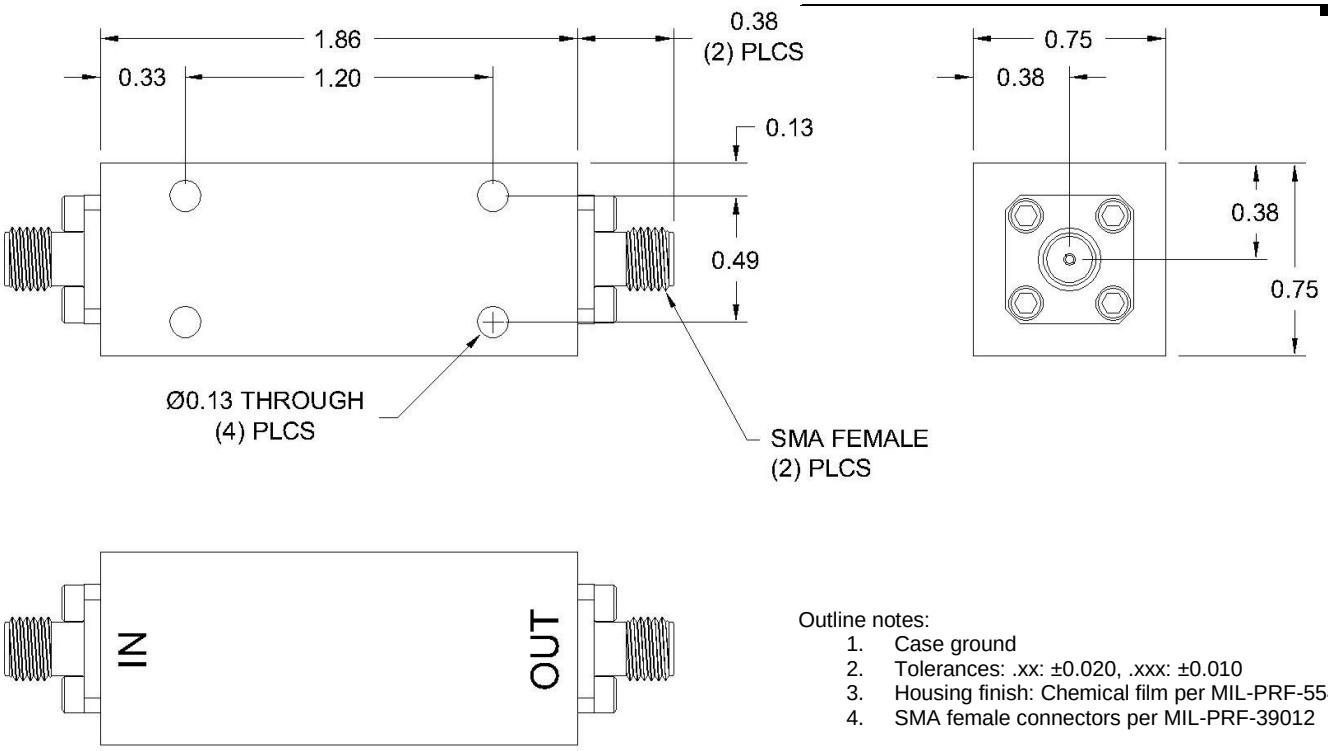
OUTLINE DRAWING:



Outline notes:

1. 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:

1) 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.
3) Optimized bandwidths: Narrow bandwidths can result in improved insertion loss and vswr.
4) Package: Custom application-specific package styles are available upon request.

Revision History

Revision Level / Date	Para. Affected	Description
1 / 13 August 2014	-	Initial Release