

GENERAL DESCRIPTION

RoHS-compliant 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 _{STG}	-60 to +100	°C
Operating Temperature	T _{OP}	-55 to +85	°C
RF Power Handling, CW	P _{CW}	100 (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.

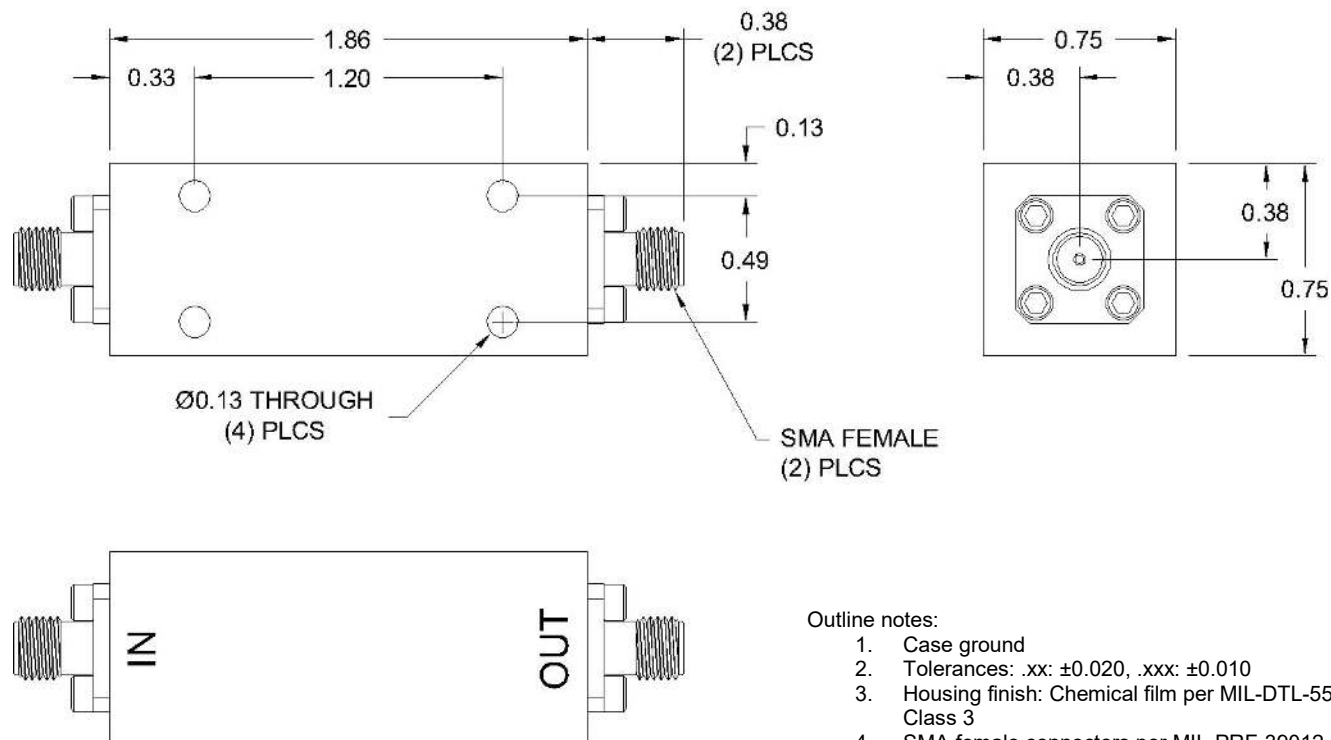
Test	MIL-PRF	Method	Cond.
Stabilization Bake	883	1008	B
Thermal Cycle	883	1010	B
Constant Acceleration	883	2001	A (Y1 Axis)
External Visual	883	2009	-

GUARANTEED PERFORMANCE +25°C:

TEST PARAMETER	CONDITIONS	SPECIFICATION
FREQUENCY RANGE		10 – 2500MHz MIN
INSERTION LOSS	-10dBm MAX	0.4dB MAX, 10 – 1500MHz
		0.6dB MAX, 1500 – 2500MHz
VSWR	-10dBm MAX	1.35:1 MAX (50Ω)
FLAT LEAKAGE	10W CW	+13dBm MAX
P1dB		0dBm MIN
RECOVERY TIME	3dB, 10W CW	2.0usec 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

OUTLINE DRAWING:

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.

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Revision History

Revision Level / Date	Para. Affected	Description
1 / 11 July 2013	-	Initial Release
2 / 7 March 2014	-	Add RoHS-compliance, update finish
3 / 10 June 2020	Guaranteed Performance	Change insertion loss specification