

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 _{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	-

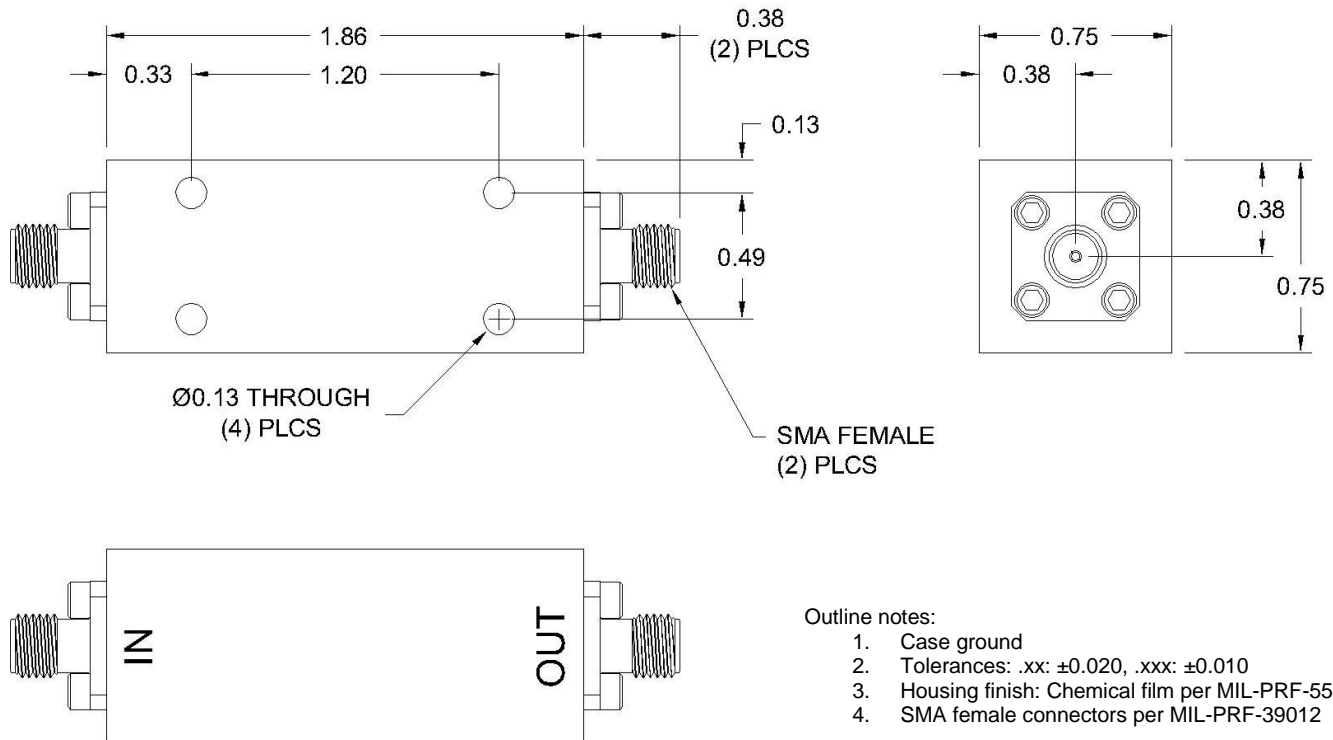
GUARANTEED PERFORMANCE +25°C:

TEST PARAMETER	CONDITIONS	SPECIFICATION
FREQUENCY RANGE		10 – 2500MHz MIN
INSERTION LOSS	-10dBm MAX	0.3dB MAX, 10 – 1500MHz
		0.5dB 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

For the most current data, consult MICROSEMI's website: www.MICROSEMI.com
 Specifications are subject to change, consult the RFIS factory at (978) 442-5600 for the latest information.

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.

The information contained in the document is PROPRIETARY AND CONFIDENTIAL information of Microsemi and cannot be copied, published, uploaded, posted, transmitted, distributed or disclosed or used without the express duly signed written consent of Microsemi. If the recipient of this document has entered into a disclosure agreement with Microsemi, then the terms of such Agreement will also apply. This document and the information contained herein may not be modified, by any person other than authorized personnel of Microsemi. No license under any patent, copyright, trade secret or other intellectual property right is granted to or conferred upon you by disclosure or delivery of the information, either expressly, by implication, inducement, estoppel or otherwise. Any license under such intellectual property rights must be approved by Microsemi in writing signed by an officer of Microsemi.

Microsemi reserves the right to change the configuration, functionality and performance of its products at anytime without any notice. This product has been subject to limited testing and should not be used in conjunction with life-support or other mission-critical equipment or applications. Microsemi assumes no liability whatsoever, and Microsemi disclaims any express or implied warranty, relating to sale and/or use of Microsemi products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. The product is subject to other terms and conditions which can be located on the Web at <http://www.microsemi.com/legal/tnc.asp>.

Revision History

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

For the most current data, consult MICROSEMI's website: www.MICROSEMI.com
 Specifications are subject to change, consult the RFIS factory at (978) 442-5600 for the latest information.