

DESCRIPTION

PMI MODEL: LM-1G2G-4CW-1KWP-SMF IS A RF LIMITER THAT OPERATES OVER THE 1 GHz TO 2 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 4 W CW AND 1 kW PEAK (1% DUTY CYCLE, 1 μ s MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF +16 dBm (40 mW) . THIS MODEL HAS A LOW INSERTION LOSS OF 0.7 dB AND A RECOVERY TIME OF 1 μ s MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 1 GHz TO 2 GHz
- INSERTION LOSS: 0.7 dB MAXIMUM
- INPUT/OUTPUT VSWR: 2.0:1 MAX @ -10 dBm INPUT
- IMPEDANCE: 50 Ω
- INPUT POWER: 4 W CW MIN
1 kW PEAK (1% DUTY CYCLE, 1 μ s MAX PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: 16 dBm (40 mW) MAXIMUM
- LIMITING THRESHOLD: 5 dBm MIN, 1 dB COMPRESSION
- RECOVERY TIME: 1 μ s MAXIMUM
- CONNECTORS: INPUT: SMA MALE
OUTPUT: SMA FEMALE
- SIZE: 1.00" x 0.75" x 0.38"
25.40 mm x 19.05 mm x 9.65 mm (EXCLUDING CONNECTORS)
- FINISH: GOLD PLATED

* - EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION.

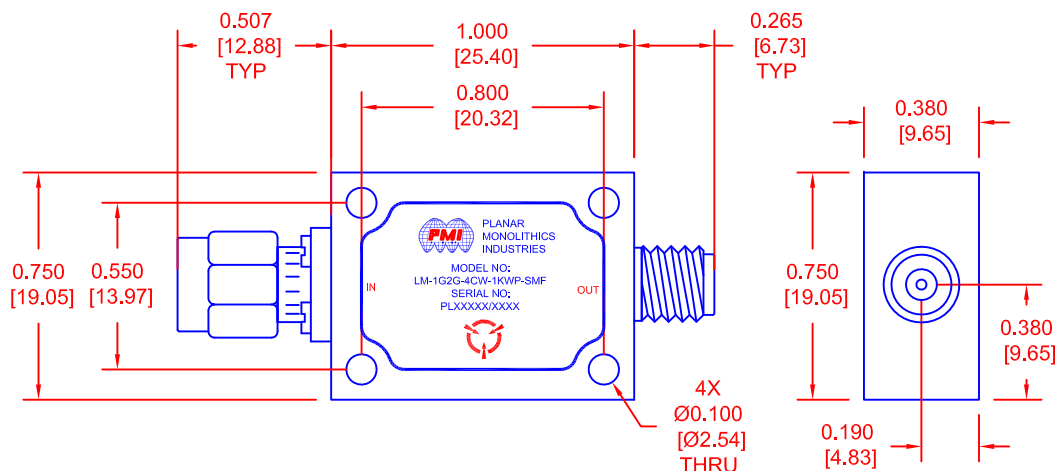
ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
-65 $^{\circ}$ C TO +95 $^{\circ}$ C (STORAGE)
- STABILIZATION BAKE: MIL-STD-883, METHOD 1008, COND. B
- THERMAL CYCLE: MIL-STD-883, METHOD 1010, COND. B
- VIBRATION: DISPLACEMENT (DOUBLE AMPLITUDE): 5 mm p-p; 2~7 Hz
ACCELERATION LEVEL (PEAK): $\pm$ 0.5 G; 7~50 Hz
- VIBRATION: DISPLACEMENT (DOUBLE AMPLITUDE): 10 mm p-p @ 2~10 Hz
& 5 mm p-p @ 5~10 Hz
- SHOCK: 15 G, 11 $\pm$ 1 ms
- RELATIVE HUMIDITY: 100%
- ALTITUDE: 70000 ft

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	03/21/16	
	A1	ECN # 16-0071	06/06/16	

MECHANICAL OUTLINE

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>M. Berry</i>		03/21/16		PRODUCT FEATURE LM-1G2G-4CW-1KWP-SMF	
CHECKED				SIZE A	FSCM NO. 05XQ0
ISSUED				DWG NO. 27029431-PMI	REV. A1
				SCALE N:S	SHEET 1 OF 1