

## DESCRIPTION

PMI MODEL: LM-1G2G-4CW-1KWP-SFF 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 μs 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 μs 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 μs MAX PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: ----- 16 dBm (40 mW) MAXIMUM
- LIMITING THRESHOLD:----- 5 dBm MIN, 1 dB COMPRESSION
- RECOVERY TIME: ----- 1 μs MAXIMUM
- CONNECTORS: ----- INPUT: SMA FEMALE  
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 °C TO +85 °C (OPERATING)  
-65 °C TO +95 °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): ±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 ±1 ms
- RELATIVE HUMIDITY: ----- 100%
- ALTITUDE: ----- 70000 ft

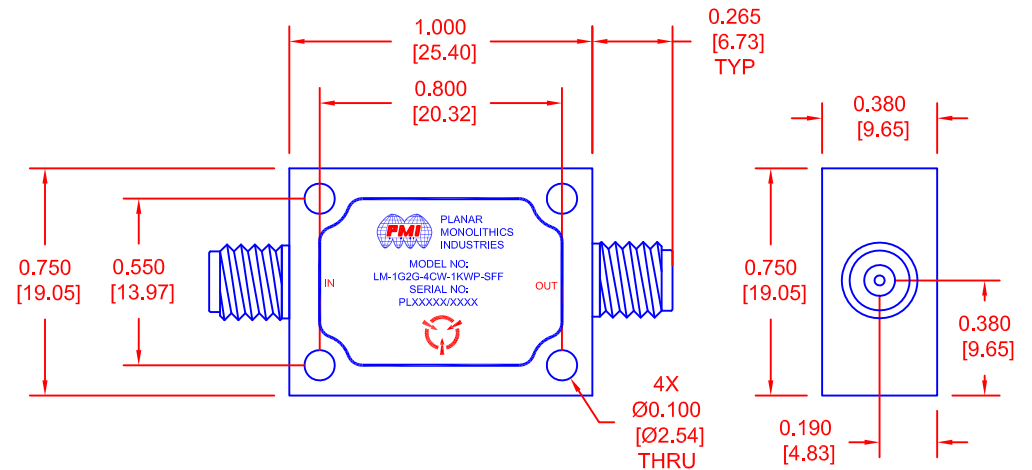
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/2/19	

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		09/21/16	PRODUCT FEATURE LM-1G2G-4CW-1KWP-SFF			
REDRAWN <i>EW</i>		7/2/19	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1