

## DESCRIPTION

PMI MODEL: LM-0D5G2G-5CW-54DBM-PP IS AN RF LIMITER THAT OPERATES OVER THE 0.5 TO 2 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 5 W CW AND 54 dBm (5% DUTY CYCLE, 1  $\mu$ s PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF +22 dBm (5% DUTY CYCLE, 1  $\mu$ s PULSE WIDTH). THIS MODEL HAS A LOW INSERTION LOSS OF 1 dB AND A RECOVERY TIME OF 10  $\mu$ s MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 2.0 GHz
- INSERTION LOSS: 1.0 dB MAXIMUM @ -10 dBm INPUT
- INPUT/OUTPUT VSWR: 2.0:1 MAX @ -10 dBm INPUT
- IMPEDANCE: 50  $\Omega$
- INPUT POWER: 5 W CW MINIMUM  
54 dBm (5% DUTY CYCLE, 1  $\mu$ s PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: 22 dBm MAXIMUM (5% DUTY CYCLE, 1  $\mu$ s PULSE WIDTH)
- SPIKE LEAKAGE: 0.5 ergs MAXIMUM (5% DUTY CYCLE, 1  $\mu$ s PULSE WIDTH)
- RECOVERY TIME: 10  $\mu$ s MAXIMUM
- I/O: RF PINS - 0.012" DIAMETER
- FINISH: GOLD PLATED

\* I/O ARE NOT DC BLOCKED.

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- STABILIZATION BAKE: MIL-STD-883, METHOD 1008, COND. B
- THERMAL SHOCK: MIL-STD-202F, METHOD 107D, COND. A
- MECHANICAL SHOCK: MIL-STD-202F, METHOD 213B, COND. J
- HUMIDITY: MIL-STD-202F, METHOD 103B, COND. B
- ALTITUDE: 55,000 FT

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

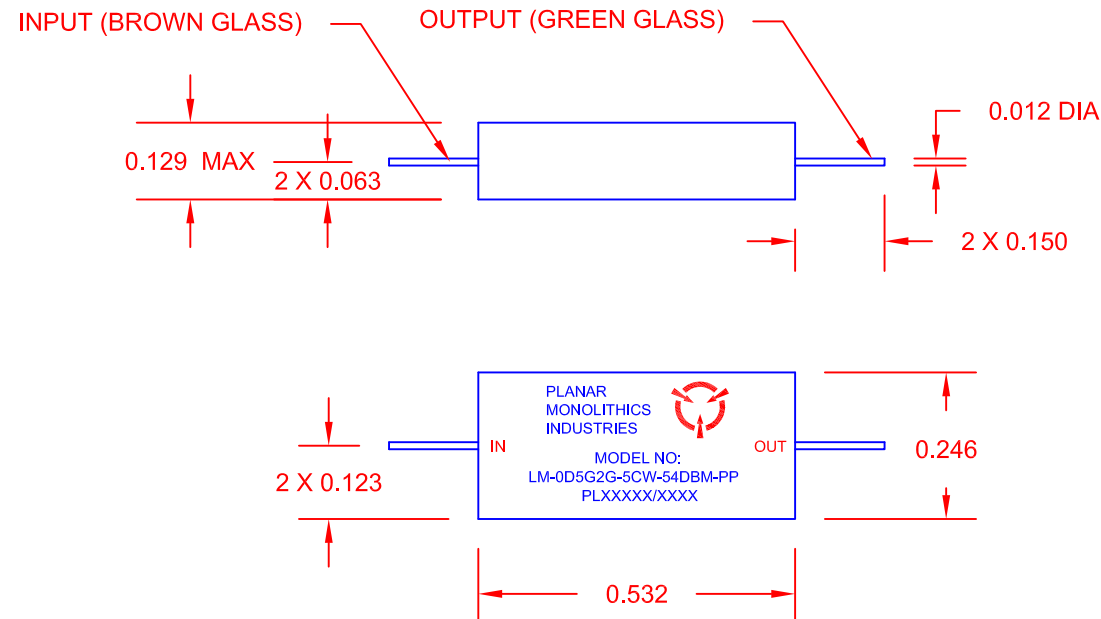
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

ALL DIMENSIONS  
ARE IN mm (INCH)  
TOLERANCES:  
X.XX  $\pm$ 0.508 [0.020]  
X.XXX  $\pm$ 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	10/19/21	

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		10/9/2021		PRODUCT FEATURE	
REDRAWN				LM-0D5G2G-5CW-54DBM-PP	
ISSUED				PRELIMINARY	
SIZE	A	FSCM NO.	05XQ0	DWG NO.	
SCALE	N:S			SHEET	1 OF 1