

## DESCRIPTION

PMI MODEL: LM-30M2G-5CW-1KWP-SFF IS A RF LIMITER THAT OPERATES OVER THE 0.03 TO 2 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 5 W CW AND 1 kW PEAK (1% DUTY CYCLE, 1 μs MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF +17 dBm (50 mW) . THIS MODEL HAS A LOW INSERTION LOSS OF 0.7 dB AND A RECOVERY TIME OF 1 μs MAXIMUM.

## SPECIFICATIONS

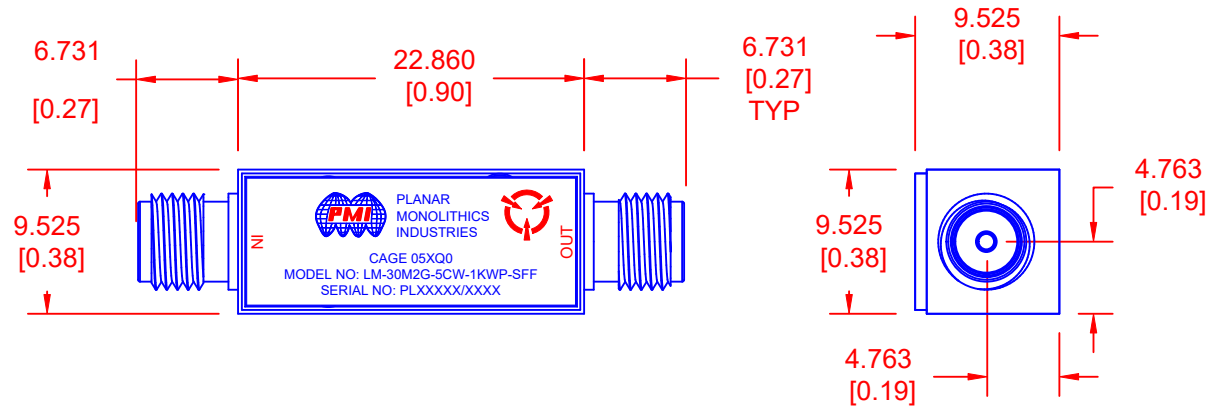
- FREQUENCY RANGE: ----- 0.03 TO 2.0 GHz
- INSERTION LOSS: ----- 0.7 dB GOAL, 1 dB MAXIMUM @ 0 dBm INPUT
- INPUT/OUTPUT VSWR: ----- 2.0:1 MAX @ 0 dBm INPUT
- IMPEDANCE: ----- 50 Ω
- INPUT POWER: ----- 5 W CW MIN  
1 kW PEAK (0.1% DUTY CYCLE, 1 μs MAX PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: ----- 17 dBm (50 mW) MAXIMUM
- SPIKE LEAKAGE: ----- 1.0 x 10<sup>-8</sup> kg m<sup>2</sup>/sec<sup>2</sup> MAXIMUM (0.1 ergs MAXIMUM)
- LIMITING THRESHOLD: ----- 7 dBm MIN, 1 dB COMPRESSION
- RECOVERY TIME (3 dB): ----- 1 μs MAXIMUM @ 1000 W PEAK POWER
- CONNECTORS: ----- SMA FEMALE
- FINISH: ----- BLUE PAINT
- WEIGHT: ----- 20 g MAX

\* - EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION.

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -30 °C TO +85 °C (OPERATING)  
-65 °C TO +95 °C (STORAGE)
- STABILIZATION BAKE: ----- MIL-STD-883, METHOD 1008, COND. B
- HUMIDITY: ----- 95% RH @ +60°C
- THERMAL CYCLE: ----- MIL-STD-883, METHOD 1010, COND. B
- VIBRATION: ----- DISPLACEMENT (DOUBLE AMPLITUDE): 10 mm p-p; 2~7 Hz  
ACCELERATION LEVEL (PEAK): 7~50 Hz, 9.807 m/s<sup>2</sup> (1G)
- SHOCK: ----- 147.105 m/s<sup>2</sup> (15G)  
11 ±1 ms (6 DIRECTIONS)

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



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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/21/18	

## MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN SPH		7/12/18	PRODUCT FEATURE LM-30M2G-5CW-1KWP-SFF		
REDRAWN SPU		9/21/18	SIZE A	FSCM NO. 05XQ0	DWG NO. 27035701
ISSUED			SCALE N:S	SHEET	1 OF 1

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