

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 10⁻⁸ kg m²/sec² 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/s² (1G)
- SHOCK: ----- 147.105 m/s² (15G)
11 ±1 ms (6 DIRECTIONS)

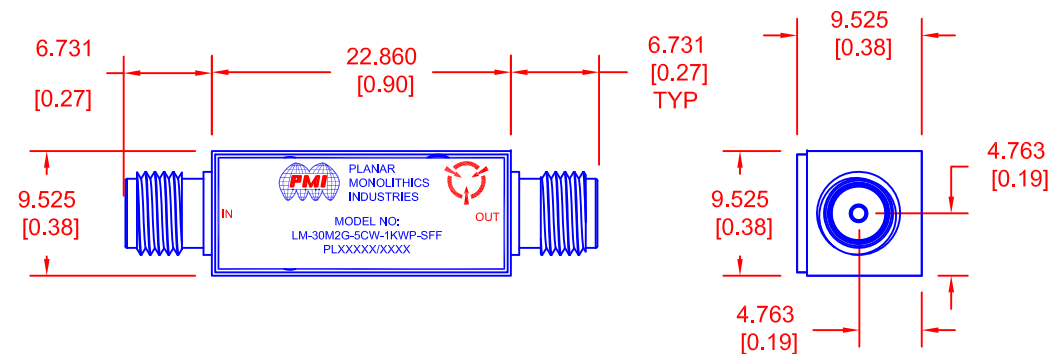
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

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

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>JPH</i>		7/12/18	PRODUCT FEATURE LM-30M2G-5CW-1KWP-SFF		
REDRAWN <i>JPH</i>		9/21/18	SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27035701
			SCALE	N:S	SHEET 1 OF 1
			REV.	A1	