

DESCRIPTION

PMI MODEL LM-10M2D5G-100CW-1KWP-SFF IS A RF LIMITER THAT OPERATES IN THE 10 MHz TO 2.5 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 100W CW AND 1kW PEAK (1% DUTY CYCLE, 1 usec MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF 14 dBm MAXIMUM AT 10W CW INPUT. THIS MODEL HAS A LOW INSERTION LOSS OF 0.8 dB AND A RECOVER TIME OF 2 usec TYPICAL.

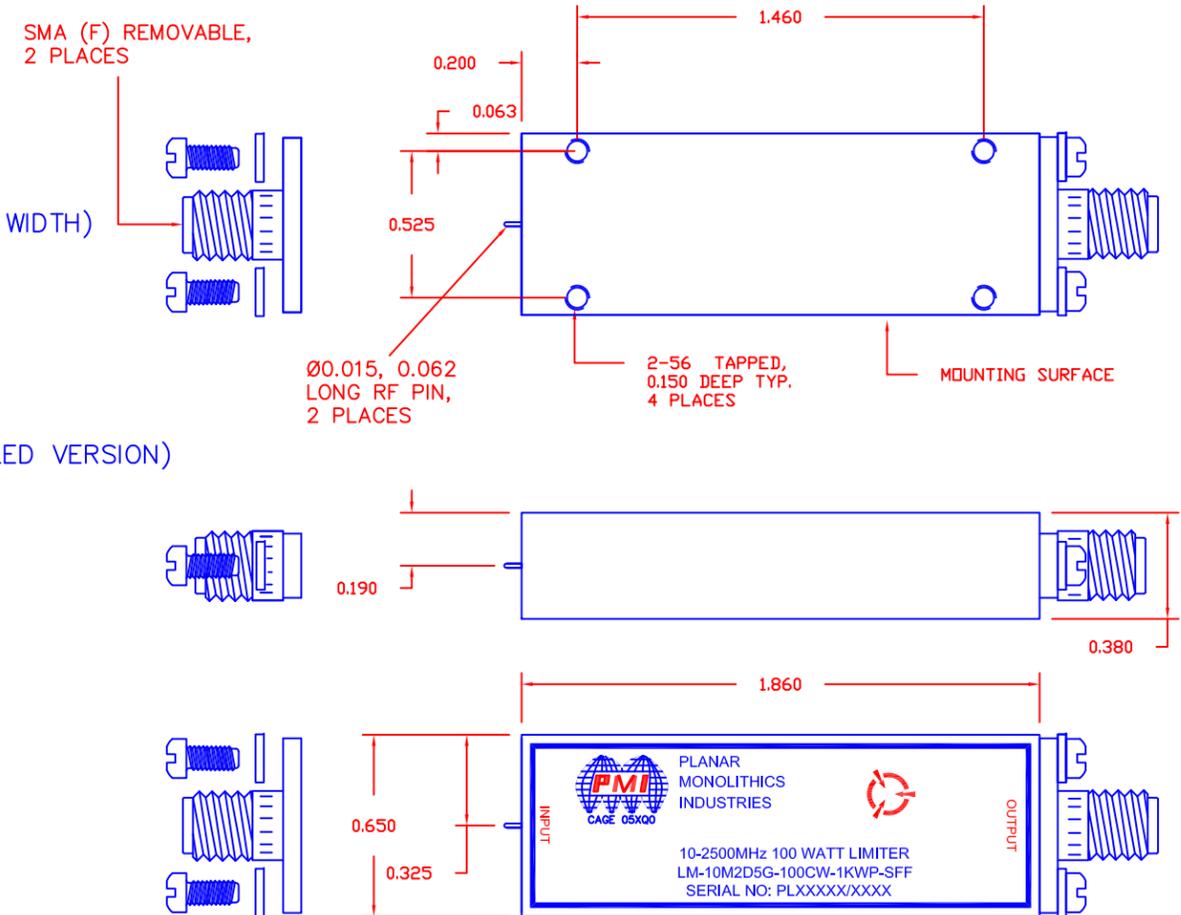
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/27/15	
	A1	ECN # 15-0065	05/26/15	
	A2	ECN # 18-0154	7/19/18	
	A3	ECN # 19-0008	1/11/19	
	A4	ECN # 21-0161	10/7/21	
	A5	ECN # 22-0112	9/1/22	

SPECIFICATIONS

- FREQUENCY RANGE: 10 MHz TO 2.5 GHz
- INSERTION LOSS: 0.8 dB MAXIMUM
- INPUT/OUTPUT VSWR: 1.3:1 MAXIMUM (AT -10 dBm INPUT)
- IMPEDANCE: 50 OHMS
- INPUT POWER: 100 WATTS CW MAXIMUM (NOTES 1, 2)
1 kW PEAK (1% DUTY CYCLE, 1 usec MAXIMUM PULSE WIDTH)
(NOTES 1, 2, 3, 4)
- MAXIMUM FLAT LEAKAGE: 14 dBm MAXIMUM AT 10W CW
- P1dB: 0 dBm MINIMUM
- RECOVERY TIME: 2 usec TYPICAL
- OPTION: HERMETIC OR NOT HERMETIC SEALING AVAILABLE
(ADD -HERM TO MODEL NUM FOR HERMETICALLY SEALED VERSION)
- FINISH: GOLD PLATED

- NOTES:
1. POWER RATING AT 25°C: DERATED LINEARLY TO ZERO @ 150°C
 2. HIGH POWER TEST DURATION: FULL RATED POWER FOR 10 SECONDS
 3. HIGH POWER PEAK CONDITIONS: 1kW PEAK (1% DUTY CYCLE, 1 usec MAXIMUM PULSE WIDTH)
 4. EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION.

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85° (OPERATING)
-60°C TO +100°C (STORAGE)
- STABILIZATION BAKE: MIL-STD-883, METHOD 1008, TEST COND. B
- THERMAL CYCLE: MIL-STD-883, METHOD 1010, TEST COND. B
- CONSTANT ACCELERATION: MIL-STD-883, METHOD 2001, A (Y1 AXIS)
- EXTERNAL VISUAL: MIL-STD-883, METHOD 2009

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

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

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APPROVALS		DATE	TITLE		
DRAWN	WR	01/27/15	PRODUCT FEATURE LM-10M2D5G-100CW-1KWP-SFF		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27024584
			SCALE	N: S	SHEET 1 OF 1
					REV. A5