

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.

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.

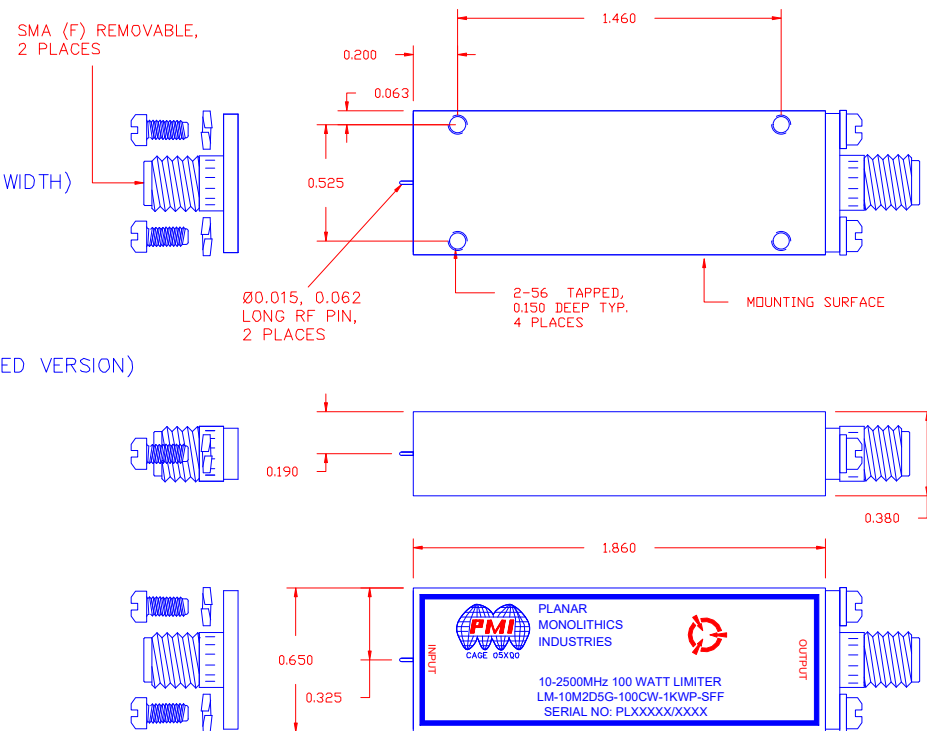
ENVIRONMENTAL RATINGS

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/27/15	
	A1	ECN # 15-0065	05/26/15	
	A2	ECN # 18-0154	7/13/18	
	A3	ECN # 19-0008	1/11/19	
	A4	ECN # 21-0161	10/7/21	
	A5	ECN # 22-0112	9/1/22	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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