

DESCRIPTION

PMI MODEL LM-10M2D5G-100CW-1KWP-SFF-HERM IS A RF LIMITER THAT OPERATES IN THE 10 MHz TO 2.5 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 100W CW AND 1 kW 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 2U 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
- 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: 1 kW PEAK (1% DUTY CYCLE, 1 usec MAXIMUM PULSE WIDTH)
 4. EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION.

ENVIRONMENTAL RATINGS

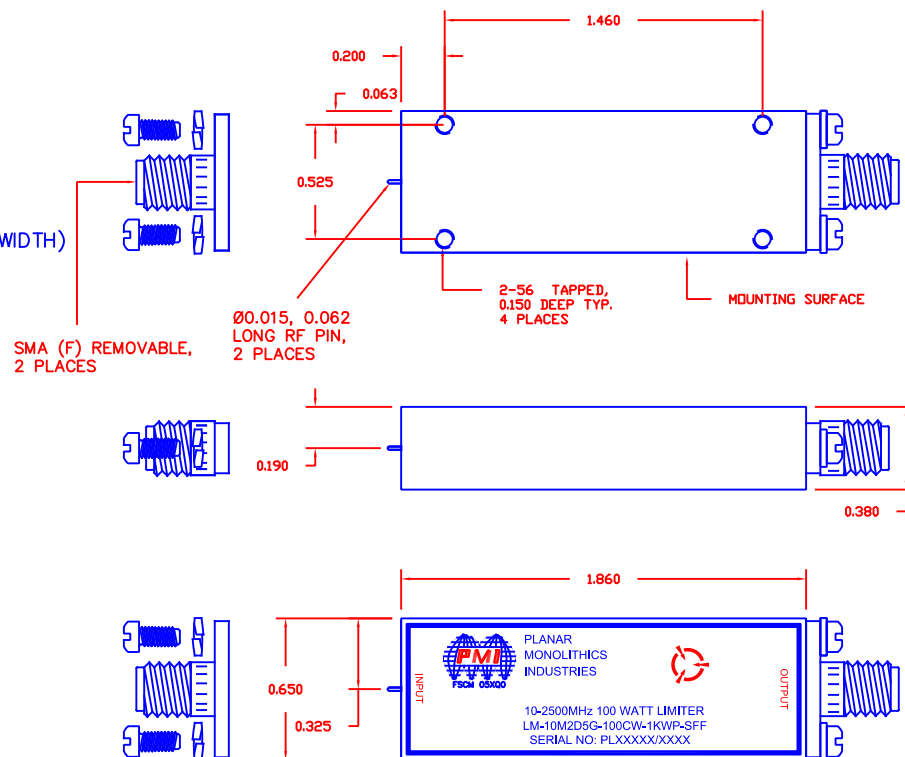
- TEMPERATURE:-40°C TO +71° (OPERATING)
-54°C TO +95°C (STORAGE)
- HIGH OPERATING TEMP: MIL-STD-810H, METHOD 501.7 PROCEDURES I AND II
- LOW OPERATING TEMP: MIL-STD-810H, METHOD 502.7 PROCEDURES I AND II
- ALTITUDE:UP TO 40,000 FT.
UP TO 60,000 FT. FOR 2 MINUTES MAX
- HUMIDITY:UP TO 100% RH
- RANDOM VIBRATION:MIL-STD-810H, METHOD 514.8, PROCEDURE I
- MECHANICAL SHOCK:MIL-STD-810H, METHOD 516.8, PROCEDURE I

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/6/26	
	1	UPDATED ENVIRONMENTAL RATINGS	3/16/26	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN	AG	03/06/26	PRODUCT FEATURE LM-10M2D5G-100CW-1KWP-SFF-HERM		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			REV.	1	
			SCALE	N: S	
			SHEET	1 OF 1	