

## DESCRIPTION

THE PMI MODEL LM-10M14G-100W-1KWP-SFF-OPT17 IS AN RF LIMITER THAT WORKS IN THE RANGE OF FREQUENCIES FROM 10 MHz TO 7.0 GHz. THIS LIMITER CAN HANDLE 100W CW OVER 1.0 TO 7.0 GHz, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) AND 1KW PEAK (10% WORK CYCLE, 10USEC MAXIMUM PULSE WIDTH) ENERGY INPUT AND PROVIDES MAXIMUM LEAKAGE OF +17 DBM TYPICAL. THIS MODEL HAS A LOW LOSS OF INSERTION OF 2.0DB AND A RECOVERY TIME OF 100NSEC TYPICAL.

## SPECIFICATIONS

- FREQUENCY RANGE: 10 MHz TO 7.0 GHz
- INSERTION LOSS: 2 dB TYPICAL
- INPUT/OUTPUT VSWR: 2.0 :1 MAXIMUM (AT -10dBm INPUT)
- IMPEDANCE: 50 OHMS
- INPUT POWER: 100 WATTS CW MAXIMUM (1.0 TO 7.0 GHz)  
ALLTEMPERATURES (-55 °C TO +85 °C)  
1KW PEAK (1% DUTY CYCLE, 1USEC PULSE WIDTH)  
100W PEAK (10% DUTY CYCLE, 10USEC PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: 17 dBm TYPICAL AT 100W CW
- P1dB: 5dBm MINIMUM
- RECOVERY TIME: 100nsec TYPICAL
- FINISH: BLUE

## ENVIRONMENTAL RATINGS

### IAW MIL-E-5400, CLASS 2 EQUIPMENT

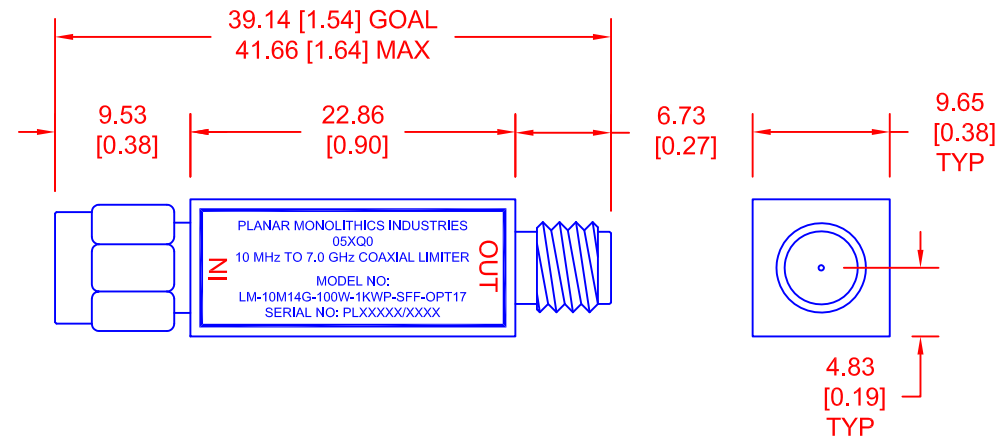
- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)  
-62 °C TO +95 °C (STORAGE)
- VIBRATION: ----- 0,1 inchpp OR ± 10G, 5 ~ 500 Hz  
(FIGURE 2, SHEET 1 OF 3, CURVE IV)
- SHOCK: ----- 15G, 11±1 ms
- HUMIDITY: ----- 100%
- ALTITUDE: ----- 70,000 FT

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

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/6/19	
	A2	ECN 20-0031	2/6/20	
	B1	ECN 21-0117	7/26/2021	

## MECHANICAL OUTLINE



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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>ALB</i>		09/01/18	PRODUCT FEATURE LM-10M14G-100W-1KWP-SFF-OPT17 10 MHz to 7.0 GHz Coaxial Limiter			
REDRAWN NJA		8/6/19	SIZE A	FSCM NO. 05XQ0	DWG NO. 27037020	REV. B1
ISSUED			SCALE N:S	SHEET 1 OF 1		