

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 100 W CW OVER 1.0 TO 7.0 GHz, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) AND 1 kW PEAK (10% WORK CYCLE, 10 us MAXIMUM PULSE WIDTH) ENERGY INPUT AND PROVIDES MAXIMUM LEAKAGE OF +17 dBm TYPICAL. THIS MODEL HAS A LOW LOSS OF INSERTION OF 1.5 dB MAX AND A RECOVERY TIME OF 100 ns MAX.

SPECIFICATIONS

- FREQUENCY RANGE: 10 MHz TO 7.0 GHz
- INSERTION LOSS: 1.5 dB MAX
- INPUT/OUTPUT VSWR: 2.0 :1 MAXIMUM (AT -10dBm INPUT)
- IMPEDANCE: 50 OHMS
- INPUT POWER: 100 WATTS CW MAXIMUM (10 MHz – 7 GHz, TESTED 20 MHz – 7 GHz)
ALL TEMPERATURES (-55 °C TO +85 °C)
1 kW PEAK (1% DUTY CYCLE, 1 us PULSE WIDTH)
100 W PEAK (10% DUTY CYCLE, 10 us PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE: 17 dBm TYPICAL AT 100W CW
- P1dB: 5 dBm MINIMUM
- RECOVERY TIME: 100 ns MAX
- FINISH: BLUE

ENVIRONMENTAL RATINGS

IAW MIL-E-5400, CLASS 2 EQUIPMENT

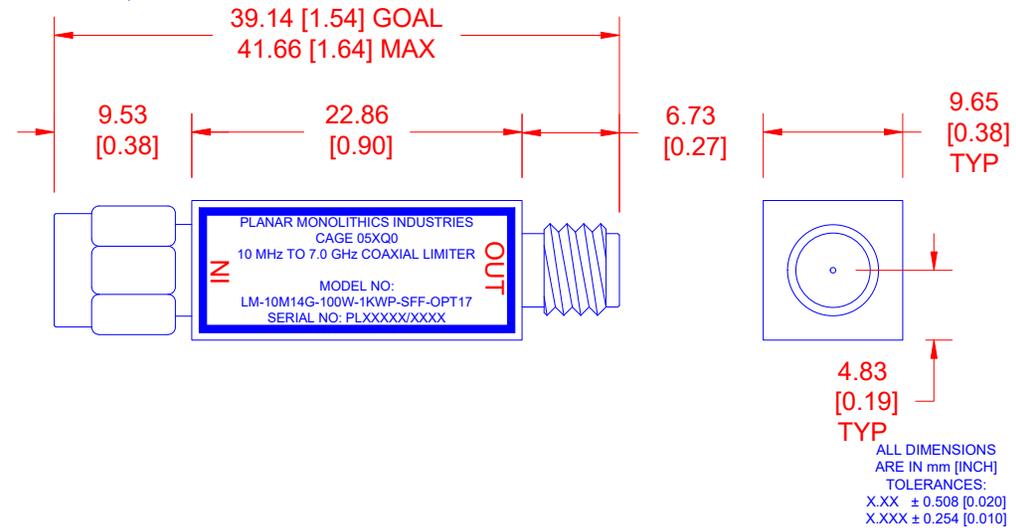
- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-62 °C TO +95 °C (STORAGE)
- VIBRATION: ----- 0.1 inchpp OR ± 10G, 5 ~ 500 Hz
(FIGURE 2, SHEET 1 OF 3, CURVE IV)
- SHOCK: ----- 15G, 11±1 ms
- HUMIDITY: ----- 100%
- ALTITUDE: ----- 70,000 FT

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	
	B1	ECN 21-0117	7/26/2021	
	C1	ECN # 25-0231	8/12/25	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>ALC</i>		09/01/18	PRODUCT FEATURE			
REDRAWN NJA		8/6/19	LM-10M14G-100W-1KWP-SFF-OPT17			
ISSUED			10 MHz to 7.0 GHz Coaxial Limiter			
SIZE	FSCM NO.	DWG NO.	REV.			
A	05XQ0	27037020	C1			
SCALE	N:S	SHEET	1 OF 1			