

## DESCRIPTION

THE PMI MODEL LM-10M14G-100CW-1KWP-SFF-OPT17 IS AN RF LIMITER THAT WORKS IN THE RANGE OF FREQUENCIES FROM 1.0 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 +13 DBM TYPICAL. THIS MODEL HAS A LOW LOSS OF INSERTION OF 2.0DB AND A RECOVERY TIME OF 100NSEC TYPICAL.

## SPECIFICATIONS

- FREQUENCY RANGE: 1.0 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: 13 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

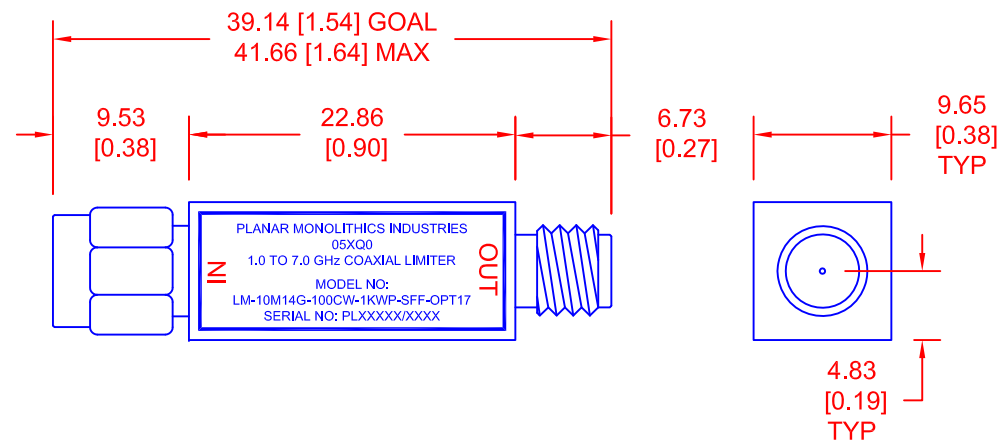
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

| REVISIONS |      |             |          |          |
|-----------|------|-------------|----------|----------|
| ZONE      | REV. | DESCRIPTION | DATE     | APPROVED |
|           | -    | PRELIMINARY | 10/19/18 |          |
|           |      |             |          |          |
|           |      |             |          |          |

## MECHANICAL OUTLINE



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

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



| APPROVALS |  | DATE     |  | TITLE                          |  | SIZE  |  | FSCM NO. |  | DWG NO.     |  | REV.   |  |
|-----------|--|----------|--|--------------------------------|--|-------|--|----------|--|-------------|--|--------|--|
| DRAWN     |  | 09/01/18 |  | PRODUCT FEATURE                |  | A     |  | 05XQ0    |  | PRELIMINARY |  | -      |  |
| REDRAWN   |  | 10/19/18 |  | LM-10M14G-100CW-1KWP-SFF-OPT17 |  | SCALE |  | N:S      |  | SHEET       |  | 1 OF 1 |  |
| ISSUED    |  |          |  | 1.0 to 7.0 GHz Coaxial Limiter |  |       |  |          |  |             |  |        |  |