

DESCRIPTION

PMI MODEL: LM-20M18G-100W-15DBM-NFM IS AN RF LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 20MHz TO 18GHz. THIS LIMITER CAN HANDLE 100W CW FOR ALL TEMPERATURES (-55°C TO +85°C) AND 1KW PEAK (1% DUTY CYCLE, 1µSEC MAXIMUM PULSE WIDTH) ENERGY INPUT, AND PROVIDES MAXIMUM LEAKAGE OF +17 dBm. THIS MODEL HAS A LOW INSERTION LOSS OF 2.5 dB AND A TYPICAL RECOVERY TIME OF 100ns

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/3/2022	

SPECIFICATIONS

- FREQUENCY RANGE:
 - INSERTION LOSS:
 - INPUT/OUTPUT VSWR:
 - IMPEDENCE:
 - INPUT POWER:

20 MHz TO 18 GHz

2 dB GOAL, 2.5 dB MAXIMUM

2.0:1 MAXIMUM (AT -10 dBm INPUT)

50 OHMS

100 WATTS CW MAXIMUM

ALL TEMPERATURES (-55°C TO +85°C)

1kW PEAK (1% DUTY CYCLE, 1 µSEC PULSE WIDTH)

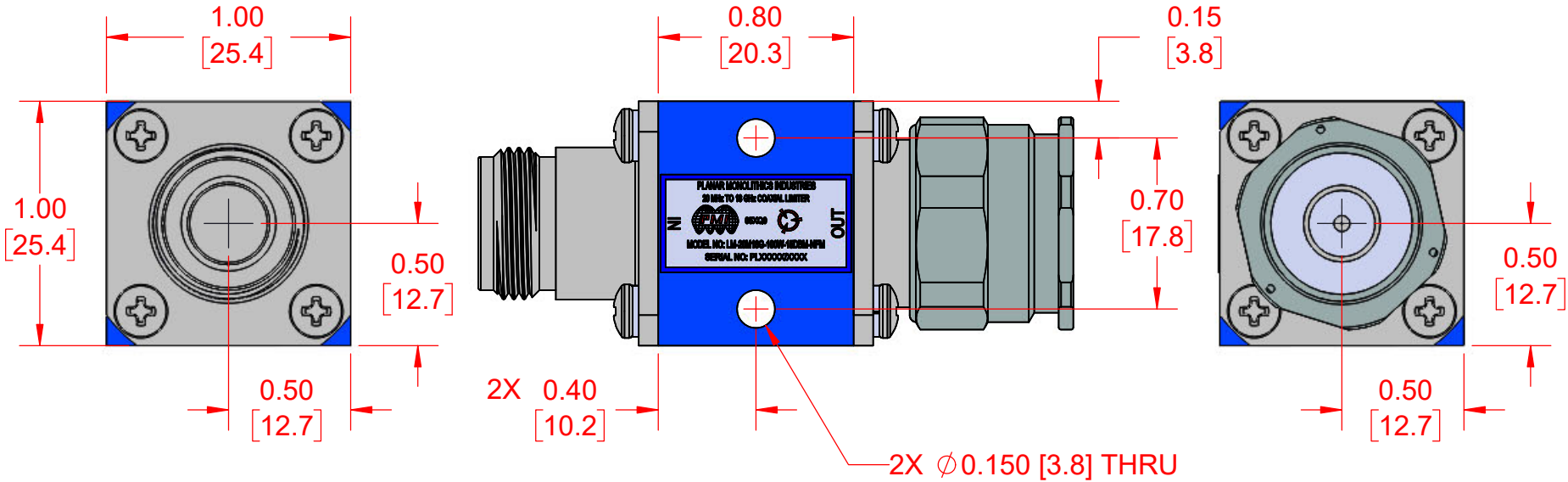
100W PEAK (10% DUTY CYCLE, 10 µSEC PULSE WIDTH)
- MAXIMUM FLAT LEAKAGE:
 - P1dB:
 - RECOVERY TIME:
 - FINISH:

17 dBm MAXIMUM AT 100W CW

5 dBm MINIMUM

100 ns TYPICAL

PAINTED BLUE



ENVIRONMENTAL RATINGS

IAW MIL-E-5400, CLASS 2 EQUIPMENT

- TEMPERATURE:
 - VIBRATION:
 - SHOCK:
 - HUMIDITY:
 - ALTITUDE:
- 55 °C TO +85 °C (OPERATING)

-62 °C TO +95 °C (STORAGE)

0.1 inchpp OR ± 10G, 5 ~ 500 Hz

(FIGURE 2, SHEET 1 OF 3, CURVE IV)

15G, 11±1 ms


100%

70,000 FT

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

			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 OUTLINE				
			DRAWN E. PLASKET	2/3/2022					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			REDRAWN		LM-20M18G100W15DBM-NFM				
			ISSUED		SIZE B	FSCM NO. 05XQ0	DWG NO. 27043600	REV. A1	
					SCALE N:S				SHEET 1 OF 1