

DESCRIPTION:

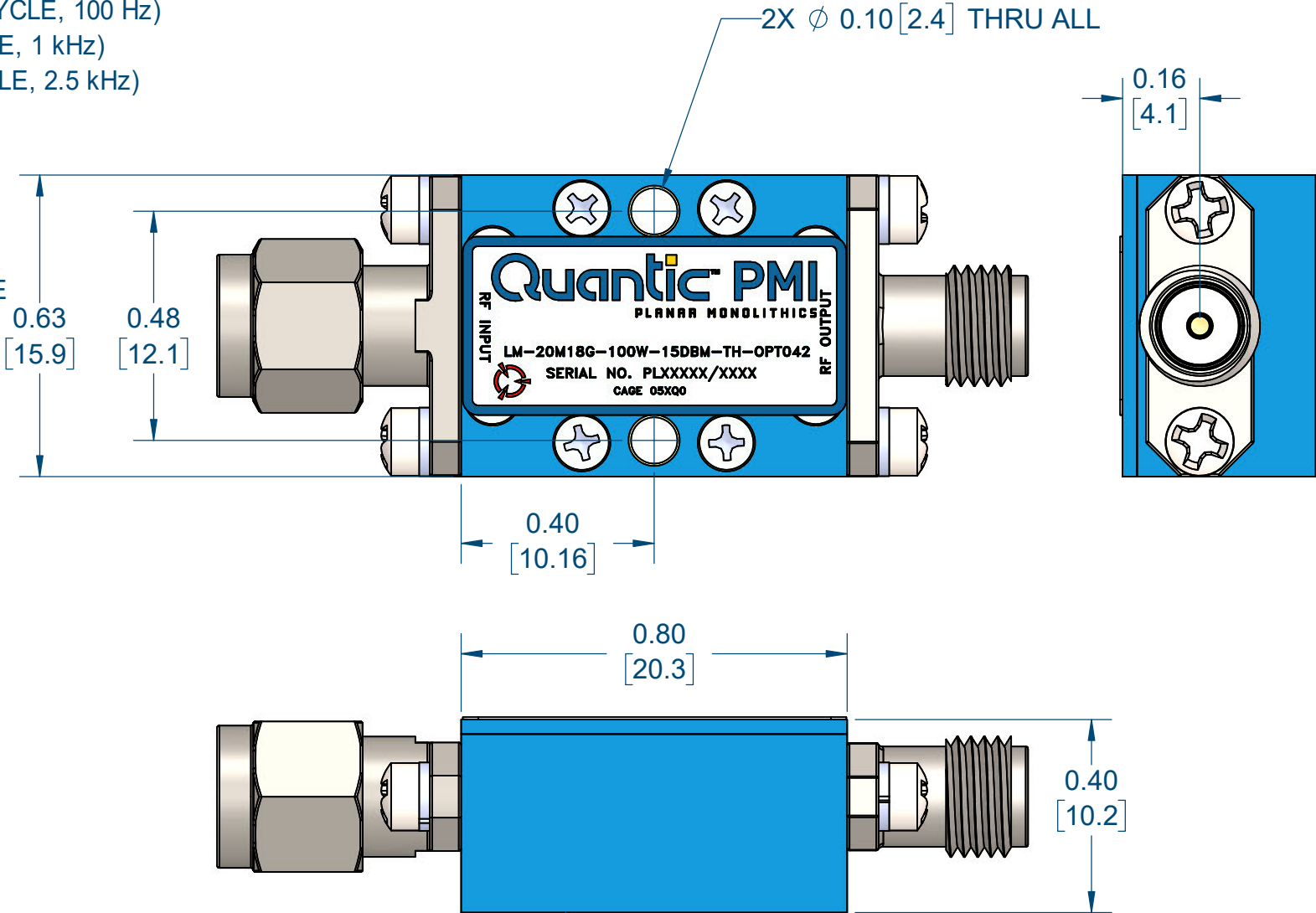
THE MODEL PMI LM-20M18G-100W-15DBM-TH-OPT042 IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 0.4 GHz TO 2 GHz. THIS LIMITER CAN HANDLE UP TO 100 W CW FOR ALL TEMPERATURES (-55°C TO +85°C) THE ENERGY INPUT PROVIDES LEAKS OF +16 dBm MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 1.0 dB AND A MAXIMUM 100ns RECOVERY TIME.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/5/2023	
	A2	ECN # 24-0026	1/31/24	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.4 TO 2 GHz
- RF POWER HANDLING:..... 100CW MAX
1kW PEAK MIN +85°C (1µs PULSE WIDTH, 0.1% DUTY CYCLE)
100W (1µs PULSE WIDTH, 1% DUTY CYCLE, 10 kHz)
100W (10 µs PULSE WIDTH, 0.1% DUTY CYCLE, 100 Hz)
100W (1µs PULSE WIDTH, 1% DUTY CYCLE, 1 kHz)
100W (40µs PULSE WIDTH, 1% DUTY CYCLE, 2.5 kHz)
- INSERTION LOSS:..... 1.0 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME:..... 100ns MAX @ 100 W PEAK POWER
- LEAKAGE POWER:..... +15 dBm TYP, +16 dBm MAX AT 100 CW
- VSWR:..... 2.0 : 1 MAX @ -10 dBm INPUT POWER
- LIMITING THRESHOLD (P1dB):..... +5 dBm MIN
- CONNECTORS:..... INPUT: SMA MALE, OUTPUT: SMA FEMALE
- WEIGHT:..... 20g [0.705 oz] MAX
- SIZE:..... 15.88mm x 20.32mm x 10.16mm
0.625" x 0.80" x 0.40"
EXCLUDING CONNECTORS
- FINISH:..... PAINTED BLUE

*NO DC BLOCKS ARE USED INSIDE THIS LIMITER



ENVIRONMENTAL RATINGS:

- 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)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

MOUNTING SURFACE

PMI CONFIDENTIAL AND PROPRIETARY

					Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED							
			APPROVALS		DATE		TITLE OUTLINE					
			DRAWN M.LAULIS		10/5/2023							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			REDRAWN		LM-20M18G-100W-15DBM-TH-OPT042							
			ISSUED		SIZE B		FSCM NO. 05XQ0		DWG NO. 27047080		REV. A2	
							SCALE 2:1				SHEET 1 OF 1	