

DESCRIPTION:

THE MODEL PMI LM-20M18G-100W-15DBM-TH-OPT618 IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 6 GHz TO 18 GHz. THIS LIMITER CAN HANDLE UP TO 100 W CW FOR ALL TEMPERATURES (-55°C TO +85°C) THE ENERGY INPUT PROVIDES LEAKS OF +15 dBm MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 2.6 dB AND A MAXIMUM 100ns RECOVERY

SPECIFICATIONS:

- FREQUENCY RANGE:..... 6.0 TO 18.0 GHz
- RF POWER HANDLING:.....100 W CW MAX
1kW PEAK MAX +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 (40 µs PULSE WIDTH, 1% DUTY CYCLE, 2.5 kHz)
- INSERTION LOSS:.....2.6dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME:.....100ns MAX @ 100 W PEAK POWER
- LEAKAGE POWER:.....+15 dBm MAX AT 100 W 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

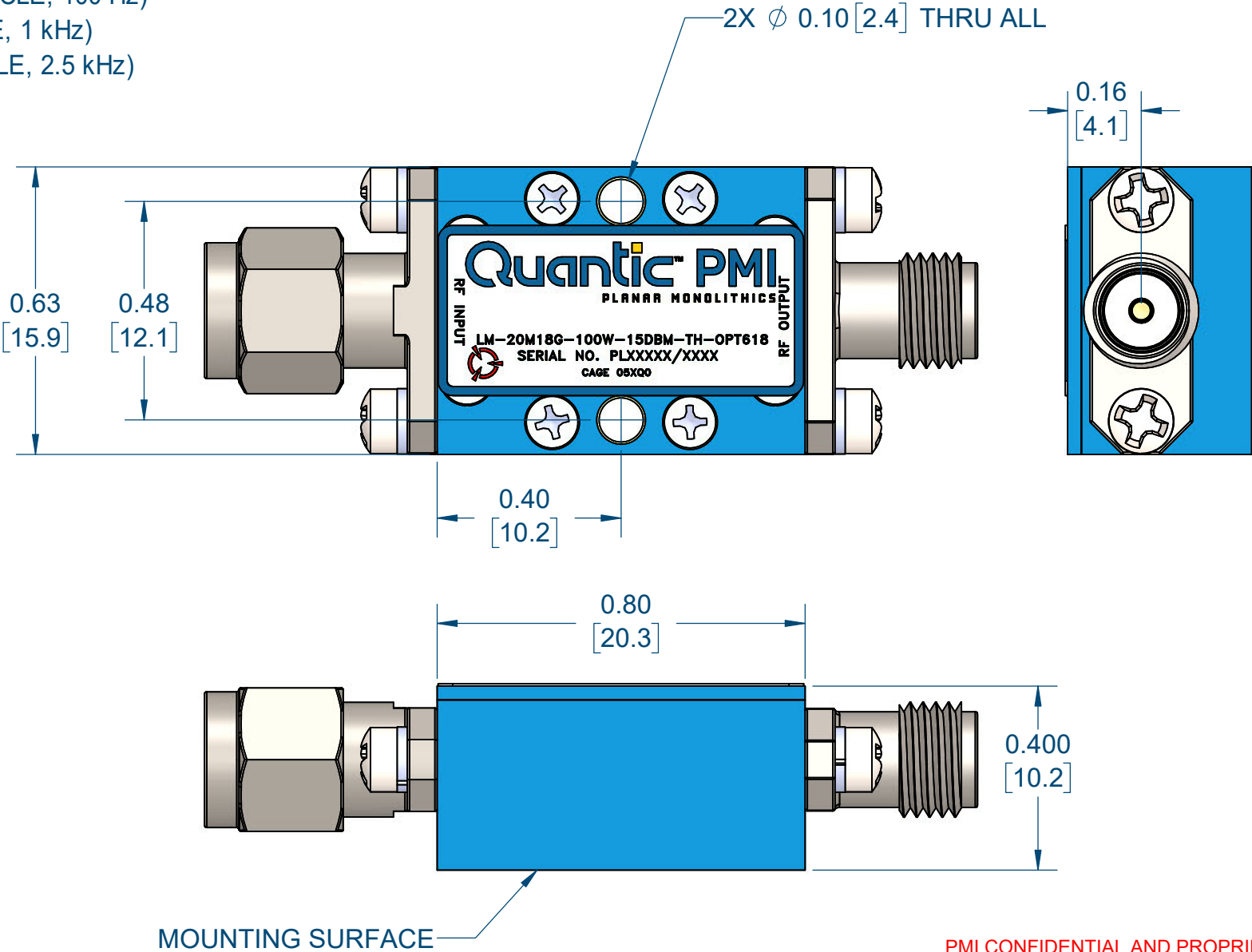
*NO DC BLOCKS ARE USED INSIDE THIS LIMITER

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/5/2023	



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01		APPROVALS	DATE	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			
		DRAWN M.LAULIS	10/5/2023				
		REDRAWN		TITLE OUTLINE			
		ISSUED		LM-20M18G-100W-15DBM-TH-OPT618			
				SIZE B	FSCM NO. 05XQ0	DWG NO. 27047100	REV. A1
				SCALE 2:1		SHEET 1 OF 1	