

DESCRIPTION:

PMI MODEL NUMBER: LM-10M50G-18DBM-4W-24FF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 10 MHz TO 50 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 4 WATTS CW & 20 WATTS PEAK, PULSE WIDTH 1 μs TO 10 μs, 1% DUTY CYCLE. THIS LIMITER USES 2.40 mm FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 10 MHz TO 50 GHz
- POWER HANDLING:..... 4 Watts CW Max. (*See Note 1)
- PEAK INPUT POWER:..... 20 Watts MAX (*See Note 2)
(Pw 1 μs, 1% Duty Cycle) Tested up to 18 GHz
(Pw 10 μs, 1% Duty Cycle) Tested up to 8 GHz
16 Watts Max. at 18 GHz (Pw 10 μs, 1% Duty Cycle)
- RECOVERY TIME:..... 100 ns Typ.
- INSERTION LOSS @ -10 dBm INPUT POWER:..... 10 MHz to 18 GHz = 1.50 dB Max.
18 GHz to 40 GHz = 2.20 dB Max.
40 GHz to 50 GHz = 3.40 dB Max.
- VSWR IN/OUT @ -10 dBm INPUT POWER:..... 2.0:1 MAX
- FLAT LEAKAGE POWER:..... +18 dBm Typ.
- P1dB:..... +15 dBm Typ.
- CONNECTORS:..... 2.40 mm FEMALE
- FINISH:..... GOLD PLATED

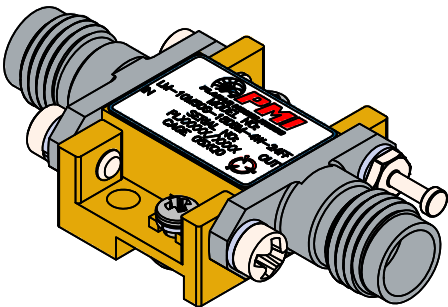
*Note 1:
4 Watts at 18 GHz, 5 Watts to 12 GHz, +20 dBm to 40 GHz (May Limit for High Power).
May handle +20 dBm or more to 50 GHz but no test equipment is available.

*Note 2:
No Peak Power testing was performed beyond 18 GHz.
Theoretically the limiter should handle 15 Watts. Typically 1 μs PW, 1% Duty Cycle
for Frequency Range 18 GHz to 50 GHz.

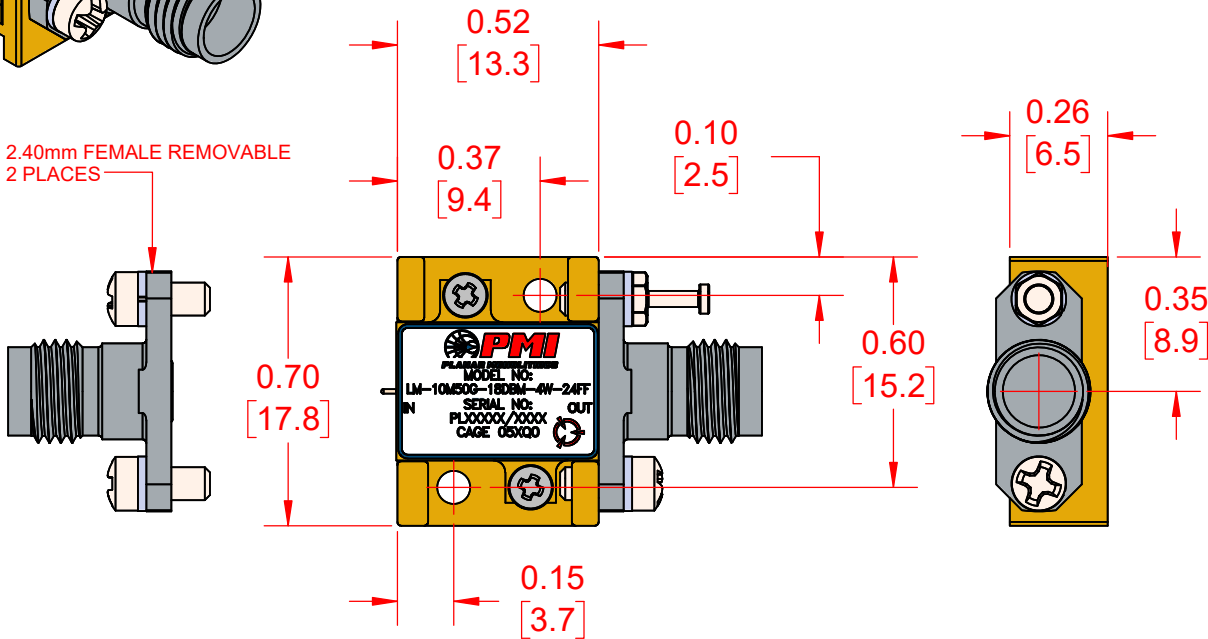
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (NON-OPERATING)
- HUMIDITY:..... MIL-STD-202,METHOD 103 COND. B
- SHOCK:..... MIL-STD-202,METHOD 213 COND. B
- VIBRATION:..... MIL-STD-202,METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202,METHOD 105 COND. B
- TEMPERATURE CYCLING:..... MIL-STD-202,METHOD 107 COND. A

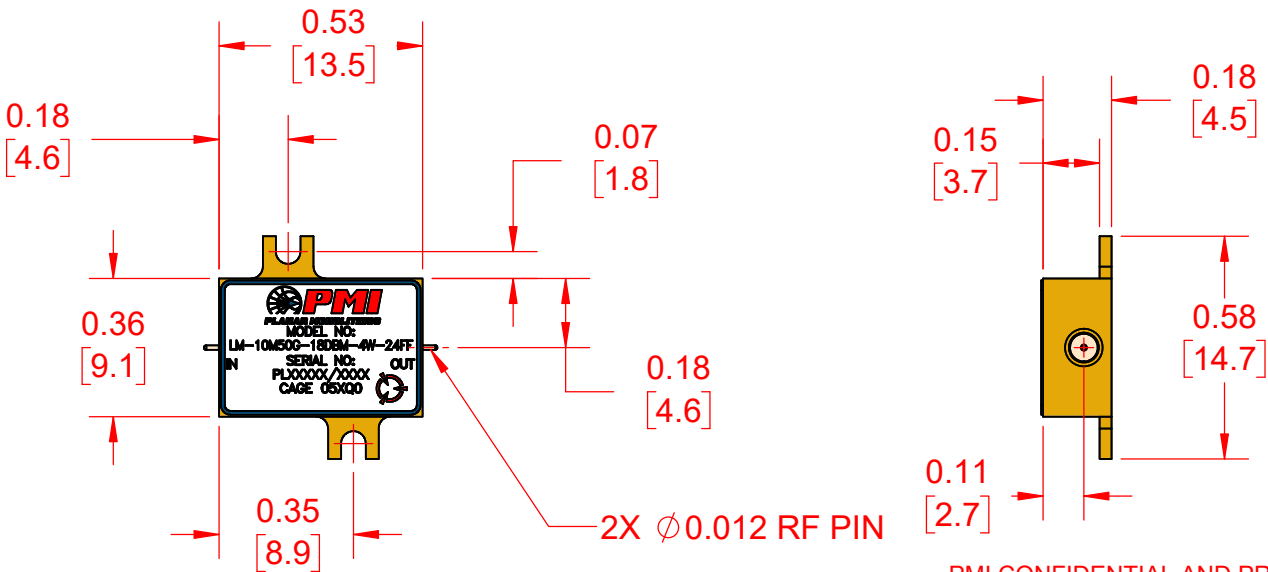
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01		APPROVALS DRAWN V. PRATAP REDRAWN ISSUED		DATE 12/9/2024	TITLE OUTLINE LM-10M50G-18DBM-4W-24FF				SIZE B	FSCM NO. 05XQ0	DWG NO. 27040620	REV. A1
					SCALE 2:1				SHEET 1 OF 1			