

DESCRIPTION:

PMI MODEL NUMBER LM-10M40G-15DBM-4W-AGAL-HERM IS A 10 MHz TO 40 GHz LIMITER FEATURING 100 ns RECOVERY TIME, 2.0:1 VSWR, AND +7 dBm P1dB.

SPECIFICATIONS:

- FREQUENCY RANGE: 10 MHz TO 40.0 GHz
- POWER HANDLING: 5 W CW MAX (20 MHz TO 12 GHz)*
4 W CW MAX (18 GHz)
- PEAK INPUT POWER: 25 W PEAK MAX (20 MHz TO 12 GHz)**
20 W PEAK MAX (18 GHz)**
(1 us PW, 1% DUTY CYCLE)
- RECOVERY TIME: 100 ns MAX
- INSERTION LOSS @ -10 dBm INPUT POWER: 1.00 dB MAX (10 MHz TO 8 GHz)
1.50 dB MAX (8 GHz TO 18 GHz)
3.20 dB MAX (18 GHz TO 40 GHz)
- VSWR IN/OUT @ -10 dBm INPUT POWER: 2.0:1 MAX
- FLAT LEAKAGE POWER: +22 dBm MAX (10 MHz TO 1 GHz)
+20 dBm MAX (1 GHz TO 4 GHz)
+18 dBm MAX (4 GHz TO 8 GHz)
+15 dBm MAX (8 GHz TO 12 GHz)
+13 dBm MAX (12 GHz TO 28 GHz)
+12 dBm MAX (28 GHz TO 40 GHz)
- P1dB: +7 dBm MIN
- RF CONNECTORS: 2.92 mm FEMALE
- FINISH: GOLD PLATED
- SEALING: HERMETIC
- WEIGHT: 50 g MAX

*5 W FROM 20 MHz TO 12 GHz, 4 W AT 18 GHz, +20 dBm TO 40 GHz (THEORETICALLY IT CAN HANDLE 4 W TYP UP TO 40 GHz)

**NO PEAK POWER TESTING WAS PERFORMED BEYOND 18 GHz, THEORETICALLY THE LIMITER SHOULD HANDLE 20 W TYP 1 us PW, 1% DUTY CYCLE FROM 18 TO 40 GHz

ENVIRONMENTAL RATINGS

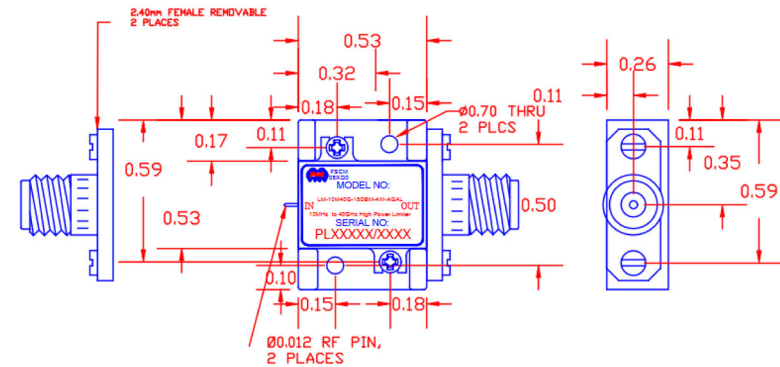
- TEMPERATURE: -54°C TO +85°C (OPERATING)
-57°C TO +95°C (STORAGE)
- HUMIDITY: DESIGNED TO OPERATE IN 100% RH ENVIRONMENT, INCLUDING CONDENSATION, PER MIL-HDBK-5400, 4.6.2.4
- SHOCK: DESIGNED TO SURVIVE AND OPERATE DURING SHOCK PER MIL-HDBK-5400, 4.6.2.6: 20G, 6-9 ms
- VIBRATION: DESIGNED TO SURVIVE AND OPERATE DURING VIBRATION PER MIL-STD-810F, ANNEX C, FIG.514.5C-8
- ALTITUDE: OPERATIONAL TO 43,000 FT.

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

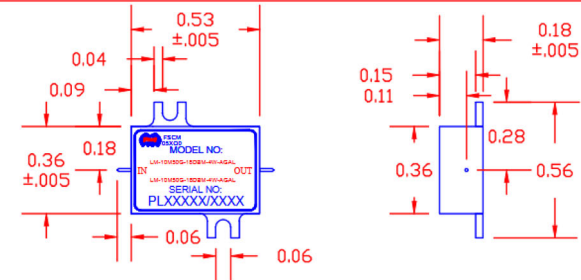
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 2.75 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	04/09/26	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN	AG	04/09/26	PRODUCT FEATURE		
CHECKED			LM-10M40G-15DBM-4W-AGAL-HERM		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1