

**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**

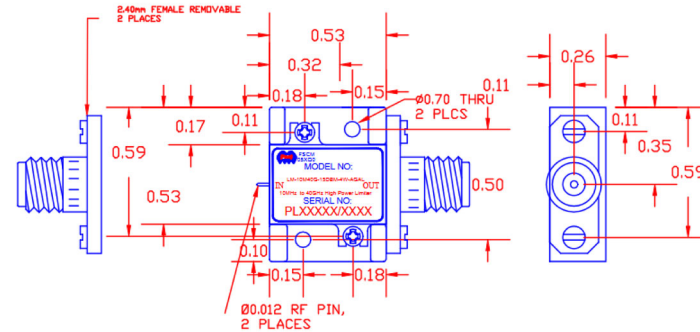
- **TEMPERATURE:** ..... -54°C TO +85°C (OPERATING)  
-57°C TO +95°C (STORAGE)
- **HUMIDITY** ..... DESIGNED TO OPERATE IN 100% RH ENVIRONMENT, INCLUDING CONDENSATION, PER MIL-HDBK-5400, 4.6.2.4
- **SHOCK** ..... DESIGNED TO SURVIVE AND OPERATE DURING SHOCK PER MIL-HDBK-5400, 4.6.2.6: 20G, 6-9 ms
- **VIBRATION** ..... DESIGNED TO SURVIVE AND OPERATE DURING VIBRATION PER MIL-STD-810F, ANNEX C, FIG.514.5C-8
- **ALTITUDE** ..... OPERATIONAL TO 43,000 FT.
- **SAND AND DUST** ..... MIL-STD-810F 510.4
- **FUNGUS** ..... MIL-STD-810F 508.5
- **SALT FOG** ..... MIL-STD-810F 509.4

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

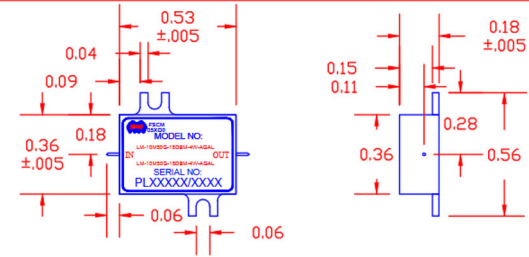
ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 2.75 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	04/09/26	
	1	ADDED ENVIRONMENTAL RATINGS	06/16/26	

**HOUSING WITH CARRIER**



**HOUSING WITHOUT CARRIER (SURFACE MOUNT)**



**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



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