

DESCRIPTION:
PMI MODEL: LM-10M37G-15DBM-10W-AGAL IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 37 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 WATTS CW (20 MHz - 1 GHz), 10 WATTS CW (2 - 18 GHz), 50 WATTS PULSED PEAK POWER (20 MHz - 12 GHz), AND 40 WATTS PULSED PEAK POWER (18 GHz), WITH 1 μs PW, 1% DUTY CYCLE. THIS LIMITER USES 2.92 mm FEMALE CONNECTORS.

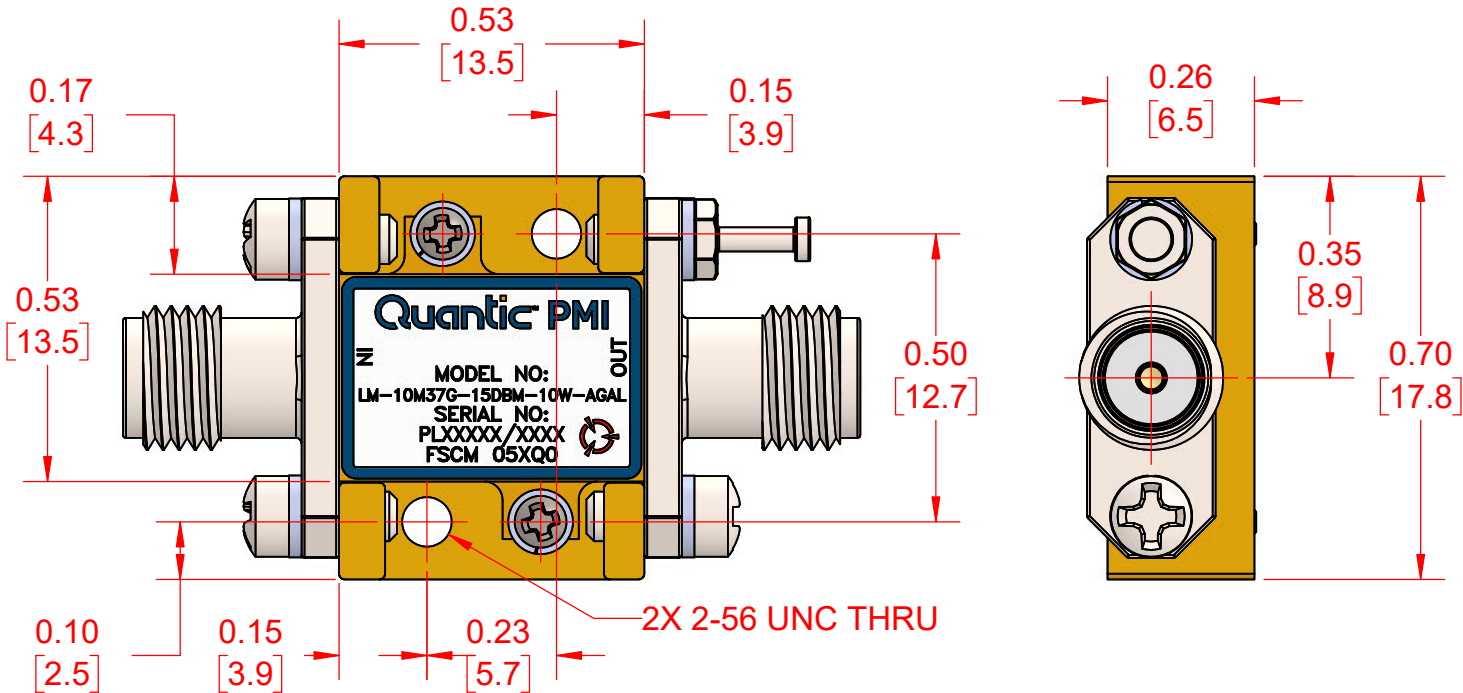
- SPECIFICATIONS:**
- FREQUENCY RANGE:..... 10 MHz TO 37.0 GHz
 - POWER HANDLING:..... 25 WATTS CW MAX (20 MHz TO 1 GHz) (*SEE NOTE 1)
10 WATTS CW MAX (2 TO 18 GHz)
 - PEAK INPUT POWER:..... 50 WATTS PEAK MAX (20 MHz TO 12 GHz) (*SEE NOTE 2)
40 WATTS PEAK MAX (18 GHz)
(1 μS PW, 1% DUTY CYCLE)
 - RECOVERY TIME:..... 150 ns TYP.
 - INSERTION LOSS @ -10 dBm INPUT POWER:..... 1.00 dB MAX (10 MHz TO 8 GHz)
2.00 dB MAX (8 GHz TO 18 GHz)
2.70 dB MAX (18 GHz TO 30 GHz)
4.30 dB MAX (30 GHz TO 37 GHz)
 - VSWR IN/OUT @ -10 dBm INPUT POWER:..... 1.8:1 MAX
 - FLAT LEAKAGE POWER:..... +18 dBm TYP (20 MHz)
+20 dBm TYP (1 GHz)
+16 dBm TYP (4 GHz)
+13 dBm TYP (8 GHz)
+10 dBm TYP (18 TO 35 GHz)
+8 dBm TYP (37 GHz)
 - P1dB:..... +6 dBm MIN
 - CONNECTORS:..... 2.92 mm FEMALE
 - FINISH:..... GOLD PLATED
- * NOTE 1: 25 WATTS FROM 20 MHz TO 1 GHz, 10 WATTS FROM 2 TO 18 GHz, +28 dBm FROM 20 TO 30 GHz AND +27 dBm FROM 35 TO 37 GHz. (THEORETICALLY IT CAN HANDLE 10 TYPICAL WATTS UP TO 37 GHz.)
- * NOTE 2: NO PEAK POWER TESTING WAS PERFORMED BEYOND 18 GHz. (THEORETICALLY THE LIMITER SHOULD HANDLE 40 WATTS TYPICALLY 1 μs PW, 1 % DUTY CYCLE FOR FREQUENCY RANGE 18 TO 37 GHz.)

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

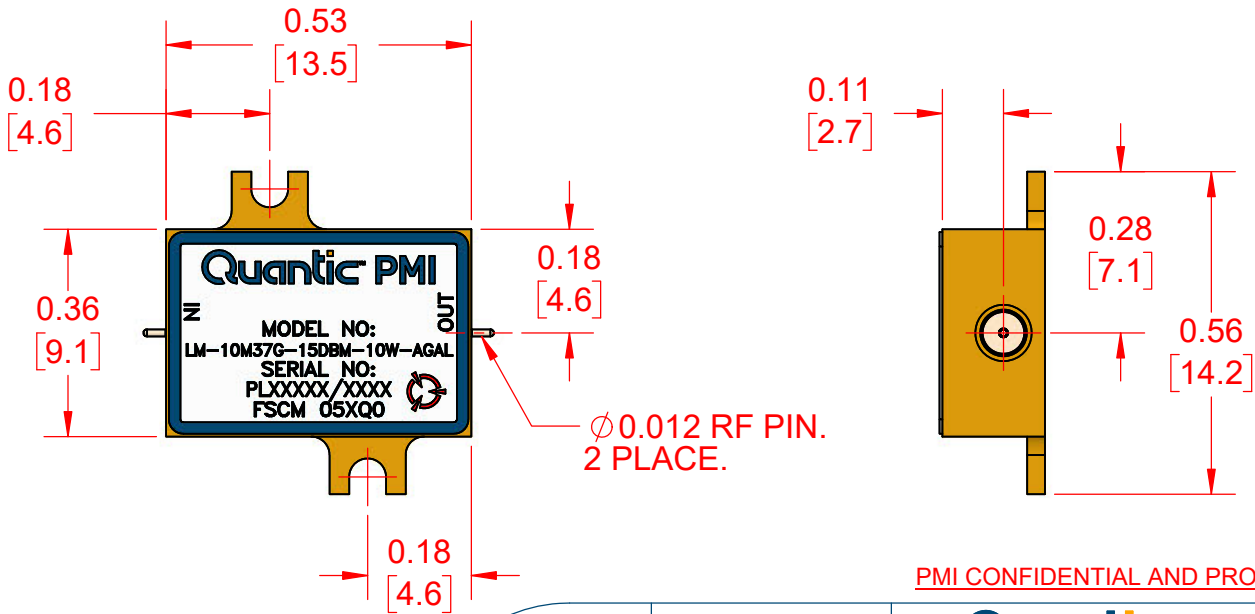
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/21/2023	
	A2	ECN # 23-0132	7/17/2023	
	B1	ECN # 25-0015	1/22/2025	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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							APPROVALS		DATE						
							DRAWN J ESCANO		2/21/2023						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: <table><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td></tr><tr><td>±</td><td>.XX ± 0.02</td><td>±</td></tr><tr><td></td><td>.XXX ± 0.01</td><td></td></tr></table>			FRACTIONS	DECIMALS	ANGLES	±	.XX ± 0.02	±		.XXX ± 0.01		TITLE		OUTLINE	
			FRACTIONS	DECIMALS	ANGLES										
			±	.XX ± 0.02	±										
	.XXX ± 0.01														
			LM-10M37G-15DBM-10W-AGAL												
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.									
			B	05XQ0	27041040	B1									
			SCALE 3:1			SHEET 1 OF 1									