

DESCRIPTION

PMI MODEL: LM-10M62G-20DBM-1W-24FF IS A LIMITER PASSIVE HAS BEEN DESIGNED FOR MINIMAL INSERTION LOSS THAT OPERATES OVER THE 10MHz TO 62.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 1 WATT CW AND 4 WATTS PULSE PEAK WITH 1 μ S PW , 1% DUTY CYCLE, THIS LIMITER USES 2.40 FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10MHz TO 62.0 GHz
- POWER HANDLING: ----- 1.5 Watts CW Max. (20MHz to 12 GHz)
1.0 Watt CW Max. (18 GHz)
(*See Note 1)
- PEAK INPUT POWER: ----- 10 Watts Peak Max (20MHz to 1GHz)
6 Watts Peak Max. (4 GHz to 8GHz)
4 Watts Peak Max. (12GHz to 18 GHz)
(Pw 1 μ s, 1% Duty Cycle)
(*See Note 2)
- INSERTION LOSS
(-10 dBm Input Power): ----- 10MHz to 18 GHz = 1.50 dB Max.
18 to 40 GHz = 2.30 dB Max.
40 to 50 GHz = 2.50 dB Typ.
50 to 62 GHz = 4.00 dB Typ.
- VSWR In/ Out
(-10 dBm Input Power):--- 10MHz to 18 GHz = 1.80:1 Max.
18 to 40 GHz = 2.0:1 Max.
40 to 50 GHz = 2.2:1 Max.
50 to 62 GHz = 3.0:1 Typ.

* NOTE 1: 1.5 Watts from 20 MHz to 12 GHz, 1 Watt at 18GHz, +20dBm to 40GHz (May Limit for High Power), May Handle +20dBm or more to 62Ghz But no Test Equipment is available.

* NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 4 Watts Typically 1 μ s PW, 1% Duty Cycle for Frequency Range 18GHz to 62GHz

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/27/20	ALC

SPECIFICATIONS

- FLAT LEAKAGE POWER:----- +22 dBm Typ.
- P1dB: ----- +16 dBm Typ.
- RECOVERY TIME: ----- 100 ns Max.
- CONNECTORS: ----- 2.40 FEMALE.
- FINISH: ----- GOLD PLATED

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

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ISO 9001 CERTIFIED



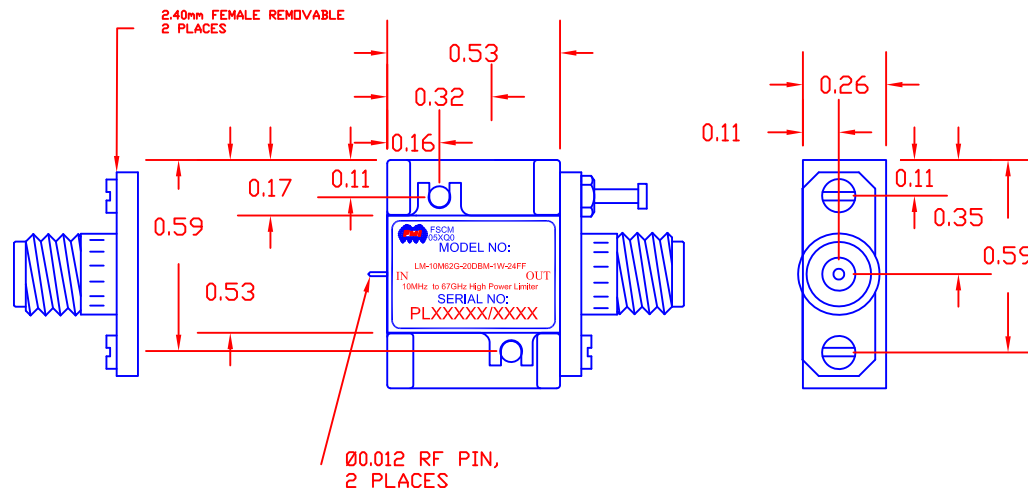
APPROVALS		DATE		TITLE			
DRAWN		8/27/20		PRODUCT FEATURE			
REDAWN				LM-10M62G-20DBM-1W-24FF			
ISSUED				10MHz to 62.0 GHz High Power Limiter			
		SIZE	FSCM NO.	DWG NO.			
		A	05XQ0		PRELIMINARY		
		SCALE	N:S		SHEET		
					1 OF 2		

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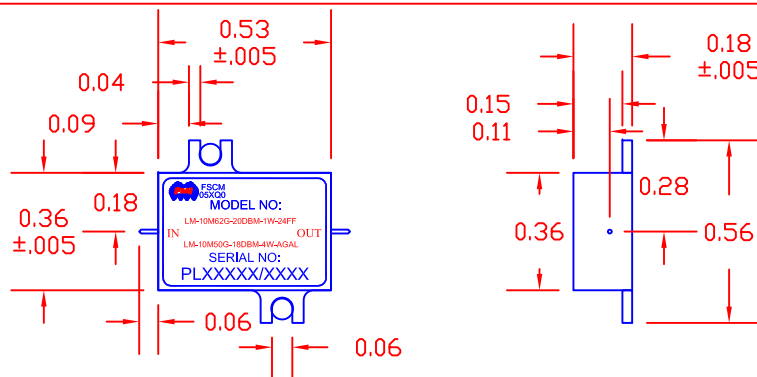
HOUSING WITH CARRIER



MECHANICAL OUTLINE

ALL DIMENSIONS
ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.010 [0.254]

HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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PRODUCT FEATURE				
LM-10M62G-20DBM-1W-24FF				
10MHz to 62.0 GHz High Power Limiter				
SIZE	FSCM NO.	DWG NO.	PRELIMINARY	REV.
A	05XQ0			A1
SCALE	N:S		SHEET	2 OF 2