

DESCRIPTION

PMI MODEL: LM-10M40G-15DBM-4W-AGAL-ROHS IS AN PASSIVE LIMITER THAT OFFERS AN MINIMAL INSERTION LOSS, WHICH OPERATES OVER THE 10MHz TO 40.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 5 WATTS CW (20MHz - 12GHz), 4 WATTS (18 GHz) 25 WATTS PULSE PEAK (20MHz - 12GHz), AND 20WATTS (18GHz) WITH 1µS PW , 1% DUTY CYCLE. THIS LIMITER USES 2.92 FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/14/23	

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10MHz TO 40.0 GHz
- POWER HANDLING: ----- 5 Watts CW Max. (20MHz to 12 GHz) (*See Note 1)
4 Watts CW Max. (18 GHz)
- PEAK INPUT POWER: ----- 25 Watts Peak Max (20MHz to 12GHz) (*See Note 2)
20 Watts Peak Max. (18GHz)
(1µs Pw, 1% Duty Cycle)
- RECOVERY TIME: ----- 100 ns Max.
- INSERTION LOSS @ -10 dBm Input Power: ----- 10MHz to 8 GHz = 1.00 dB Max.
8 to 18 GHz = 1.50 dB Max.
18 to 40 GHz = 3.20 dB Max
- VSWR In/ Out @ -10 dBm Input Power: ----- 2.0:1 Max.
- FLAT LEAKAGE POWER: ----- 20MHz to 1GHz = +22 dBm Max.
1 to 4 GHz = +20 dBm Max.
4 to 8 GHz = +18 dBm Max.
8 to 12 GHz = +15 dBm Max
12 to 18 GHz = +13 dBm Max..
20 to 28 GHz = +13 dBm Max.
28 to 32 GHz = +12 dBm Max
32 to 40 GHz = +12 dBm Max.
- P1dB: ----- +7 dBm Min.
- CONNECTORS: ----- 2.92 FEMALE.
- FINISH GOLD PLATED

* NOTE 1: 5 Watts from 20MHz to 12GHz, 4 Watts at 18GHz, +20dBm to 40GHz (Theoretically it can handle 4 Watts Typical up to 40GHz)

* NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 20 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18GHz to 40GHz

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

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ISO 9001 CERTIFIED



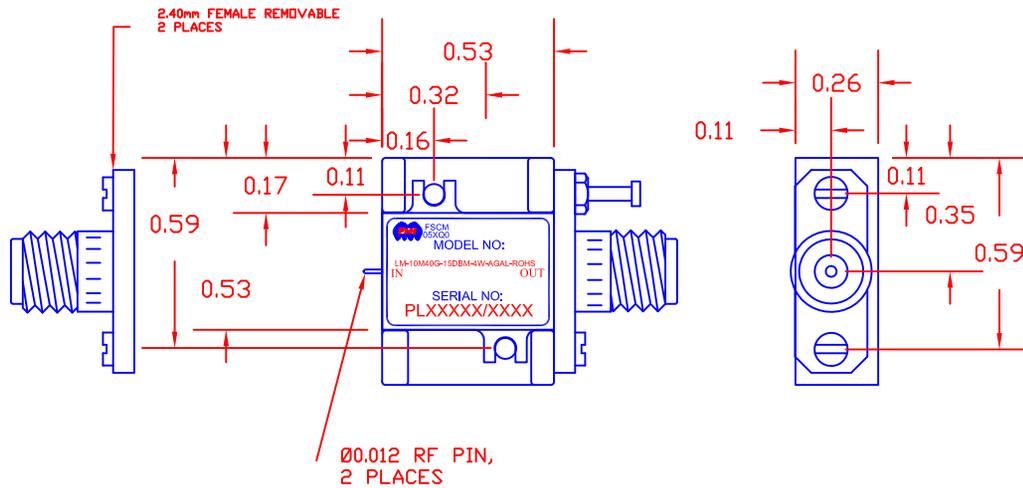
APPROVALS		DATE	TITLE			
DRAWN <i>AG</i>		11/14/23	PRODUCT FEATURE LM-10M40G-15DBM-4W-AGAL-ROHS 10MHz to 40.0 GHz High Power Limiter			
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S		SHEET 1 OF 2	

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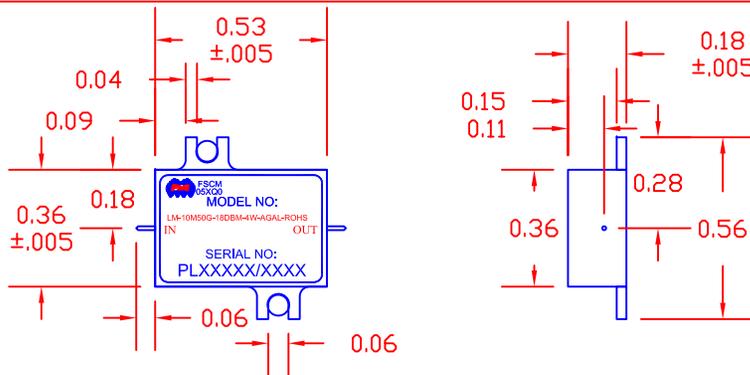
HOUSING WITH CARRIER



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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