

# DESCRIPTION

PMI MODEL: LM-10M27G-15DBM-4W-292FF IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 27 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 to 4 WATTS CW (20MHz - 18GHz) AND 50 to 40 WATTS PULSE PEAK POWER (20MHz - 18 GHz), WITH 1µS PW, 1% DUTY CYCLE, THIS LIMITER USES 2.92 FEMALE CONECTORS.

# SPECIFICATIONS

- FREQUENCY RANGE: ----- 10 MHz TO 27.0 GHz
- POWER HANDLING: ----- 25 Watts CW Max. (20MHz) (\*See Note 1)  
 10 Watts CW Max. (1 GHz)  
 8 Watts CW Max. (2 GHz)  
 5 Watts CW Max. (4 GHz)  
 4Watts CW Max. (8 to 18 GHz)
- PEAK INPUT POWER: ----- 50 Watts Peak Max (20MHz to 12GHz)  
 40 Watts Peak Max. (18GHz) (\*See Note 2)  
 (1µs Pw, 1% Duty Cycle)
- RECOVERY TIME: ----- 150 ns Max.
- INSERTION LOSS @ -10 dBm Input Power:--- 10MHz to 8 GHz = 1.30 dB Max.  
 8 to 18 GHz = 2.30 dB Max.  
 18 to 25 GHz = 2.60 dB Max  
 25 to 27 GHz = 3.0 dB Max
- VSWR In/ Out @ -10 dBm Input Power: ----- 2.0:1 Max.

\* NOTE 1: 25 Watts from 20MHz, 10 Watts at 1 GHz, 8 Watts at 2 GHz, 5 Watts at 4 GHz, 4 Watts at 8 to 18 GHz, +20 dBm 20 to 35 GHz (Theoretically it can handle 4 Watts Typ. up to 35 GHz)

\* NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 40 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18 GHz to 27 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 OPERATING TEMPERATURE  
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	Preliminary	8/9/22	

# SPECIFICATIONS

- FLAT LEAKAGE POWER: 20 MHz to 2 GHz = +18 dBm Typ.  
 2 to 4 GHz = +18 dBm Typ.  
 4 to 8 GHz = +16 dBm Typ.  
 8 to 12 GHz = +12 dBm Typ.  
 12 to 18 GHz = +10 dBm Typ.  
 20 to 27 GHz = +10 dBm Typ.
- P1dB: ----- +8 dBm Min.
- RF CONNECTORS: ----- 2.92 Female
- FINISH: ----- Gold Plated

**PLANAR MONOLITHICS INDUSTRIES, INC.**  
 7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: (301)-662-5019, FAX: (301)-662-1731  
 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
 ISO 9001 CERTIFIED



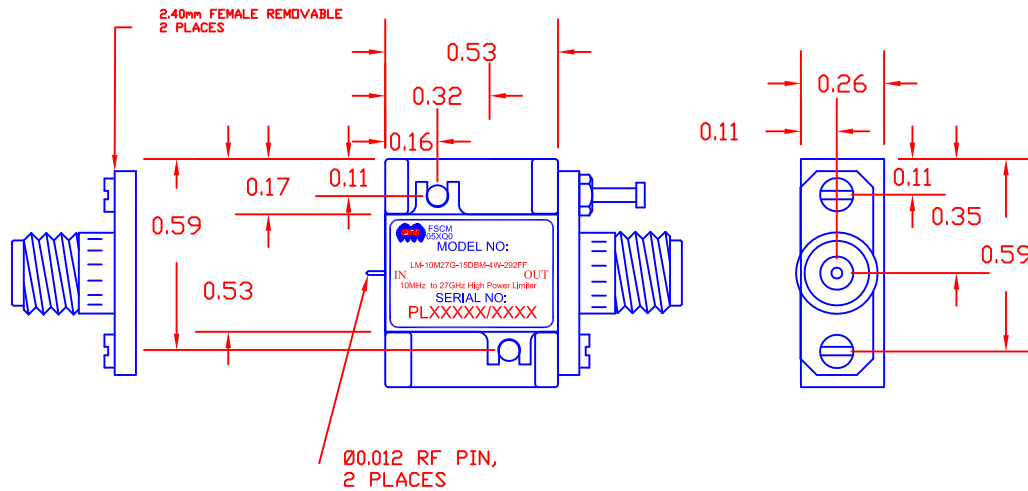
APPROVALS		DATE	TITLE			
DRAWN <i>AG</i>		8/9/22	PRODUCT FEATURE LM-10M27G-15DBM-4W-292FF 10MHz to 27.0 GHz High Power Limiter			
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S		SHEET 1 OF 2	

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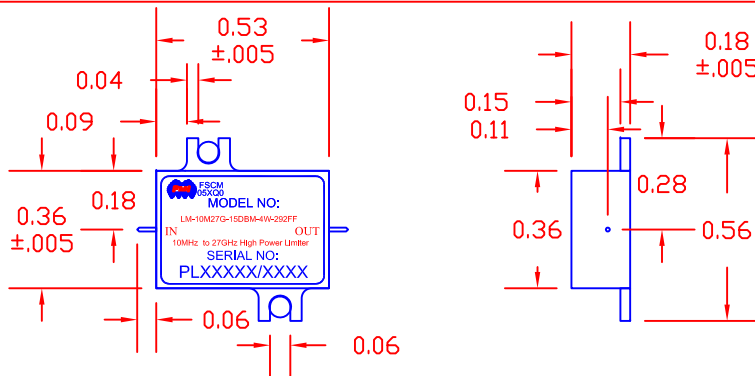
## HOUSING WITH CARRIER



## 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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		10MHz to 27.0 GHz High Power Limiter		
AF	8/9/22	SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
		SCALE N:S		SHEET 2 OF 2