

Description:

PMI Model No. PEC2-2G18G-21DBM-LM-SFF is a 2.0 to 18.0 GHz limiting amplifier that provides a limited output power level of +21dBm to +25dBm for an input power range of -45 to +10dBm CW. This model has output power level versus frequency compensation such that the limited output power has a flat frequency response. Supplied in a small housing measuring only 2.98" X 0.78" X 0.26"

This model provides the following performance.

Specifications:

- Frequency Range: 2.0 to 18.0 GHz
- Input Power: -45 to +10dBm CW
- Saturated Output Power: +21.0dBm to 25dBm Nominal
- Output Power Variation: +/-2.0dBm Max. over operating temperature range
- OP1dB: 4dBm below Psat typical
- 2nd Harmonic Rejection: -8dBc @ Psat
- 3rd Harmonic Rejection: -9dBc @ Psat
- 3rd Order Intercept Point: 35dBm - Design Goal
- Noise Figure: 5dB Max.
- VSWR Input/Output: 2.0:1 Max.
- Maximum RF Input Power: +17dBm CW
- DC Voltage Supply: +15VDC *
- DC Current Draw: 700mA Max.
- Connectors: SMA(F)
- Operating Temperature: -20 to +70 Deg. C
- Finish: Gold Plated

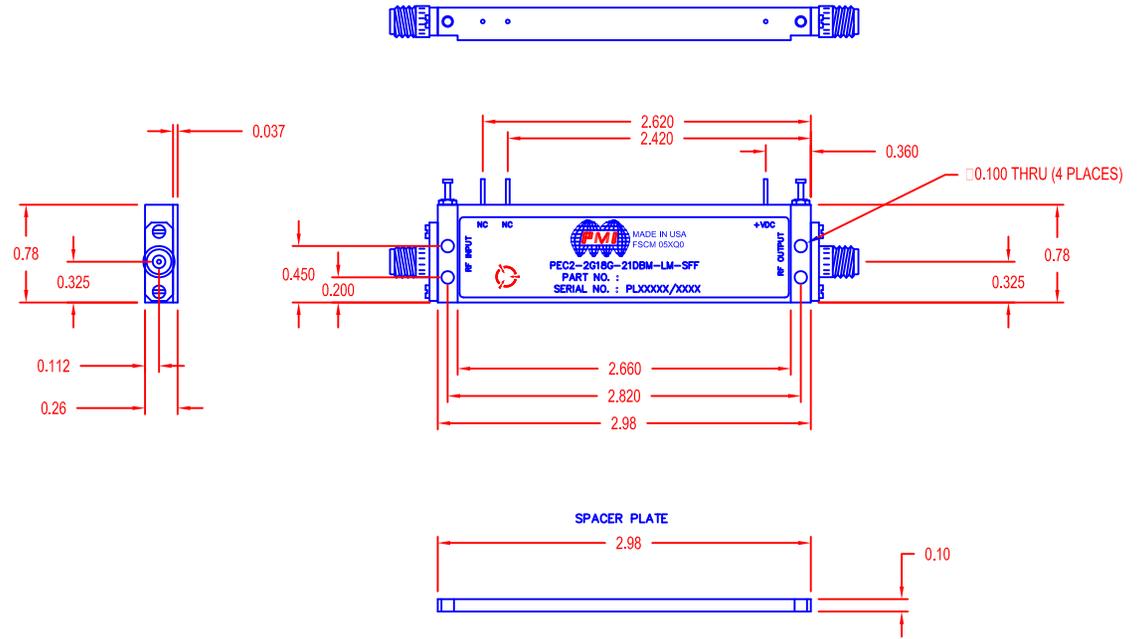
* (Including Reverse Polarity Protection and over voltage protection up to +/-25VDC)

Environmental Ratings:

- Temperature: -20 to +70 Deg. C (Operating)
-55 to +100 Deg. C (Storage)
- Humidity: MIL-STD-202F, METHOD 103B COND B.
- Shock: MIL-STD-202F, METHOD 213B COND B.
- Altitude: MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: MIL-STD-202F, METHOD 107D COND A
- EMI/EMC: Designed to meet MIL-STD-461E

Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/25/11	
	A2	ECN # 13-0033	5/7/13	
	A3	ECN # 13-0078	7/8/13	
	A4	ECN # 14-0192	11/25/14	
	A5	ADD NOISE FIGURE SPEC.	7/30/18	



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

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS	DATE	TITLE	
DRAWN: JCU	2/25/11	PRODUCT FEATURE	
CHECKED:		PEC2-2G18G-21DBM-LM-SFF	
DESIGNED:		SIZE FROM NO.	REV.
		B 05XQ0	A5
		DWG NO.	
		27014221	
		SCALE N/S	SHEET 1 OF 1