

DESCRIPTION

PMI MODEL PEC2-8G18G-21DBM-LM-SFF IS AN 8.0 TO 18.0 GHz LIMITING AMPLIFIER THAT PROVIDES A NOMINAL OUTPUT POWER LEVEL OF +20.0dBm FOR AN INPUT POWER RANGE OF -50 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 0.36".

THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE.

SPECIFICATIONS

- FREQUENCY RANGE: 8.0 TO 18.0 GHz
- INPUT POWER: -50 TO +10dBm CW
- OUTPUT POWER: ± 2.0 dBm NOMINAL
- OUTPUT POWER VARIATION: ± 2.0 dBm MAX. OVER OPERATING TEMPERATURE RANGE
- OP1dB: 4dBm BELOW Psat TYPICAL
- 2ND HARMONIC REJECTION: -8dBc @ Psat
- 3RD ORDER INTERCEPT POINT: 35dBm TYP
- VSWR INPUT/OUTPUT: 2.0:1 MAX
- MAXIMUM INPUT POWER: +17dBm CW
- DC VOLTAGE SUPPLY: +15VDC
- DC CURRENT DRAW: 700 mA MAX
- CONNECTORS: SMA(F)
- OPERATING TEMPERATURE: -20 TO +70° C
- FINISH: GOLD PLATED
- SIZE: 2.98" X 0.78" X 0.36"

ENVIRONMENTAL RATINGS

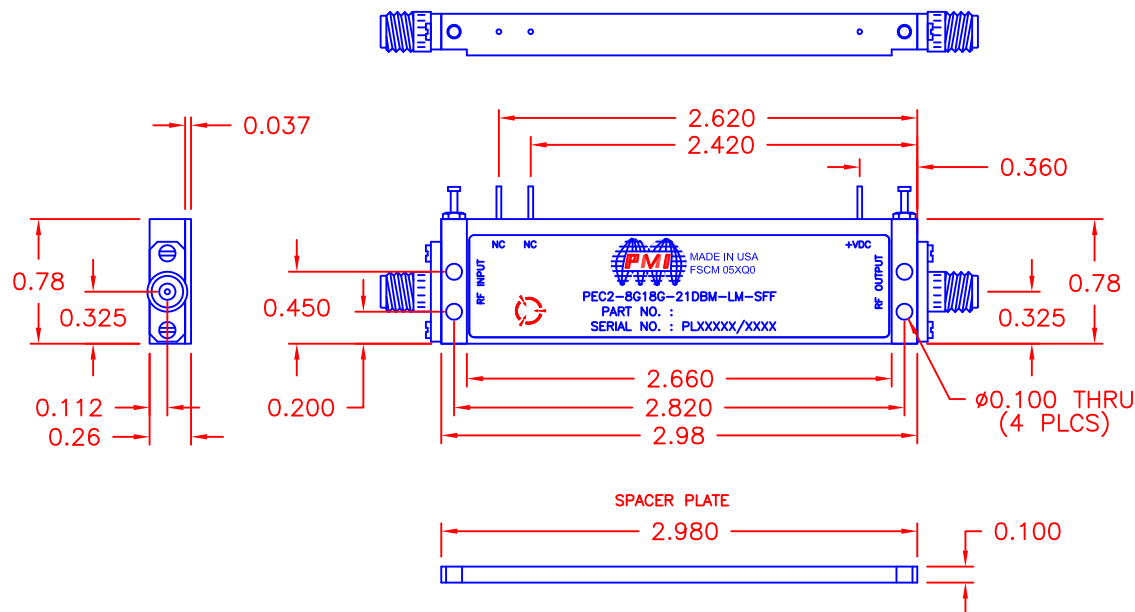
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	ORIGINAL RELEASE	07/08/18

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		07/08/18		PRODUCT FEATURE			
CHECKED				PEC2-8G18G-21DBM-LM-SFF			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27020321	1
				SCALE	N:S	SHEET	1 OF 1