

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/25/2011	
	B1	ECN # 24-0133	06/07/2024	
	B2	ECN # 25-0247	08/19/2025	

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 +21 dBm TO +25 dBm FOR AN INPUT POWER RANGE OF -45 TO +10 dBm 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.

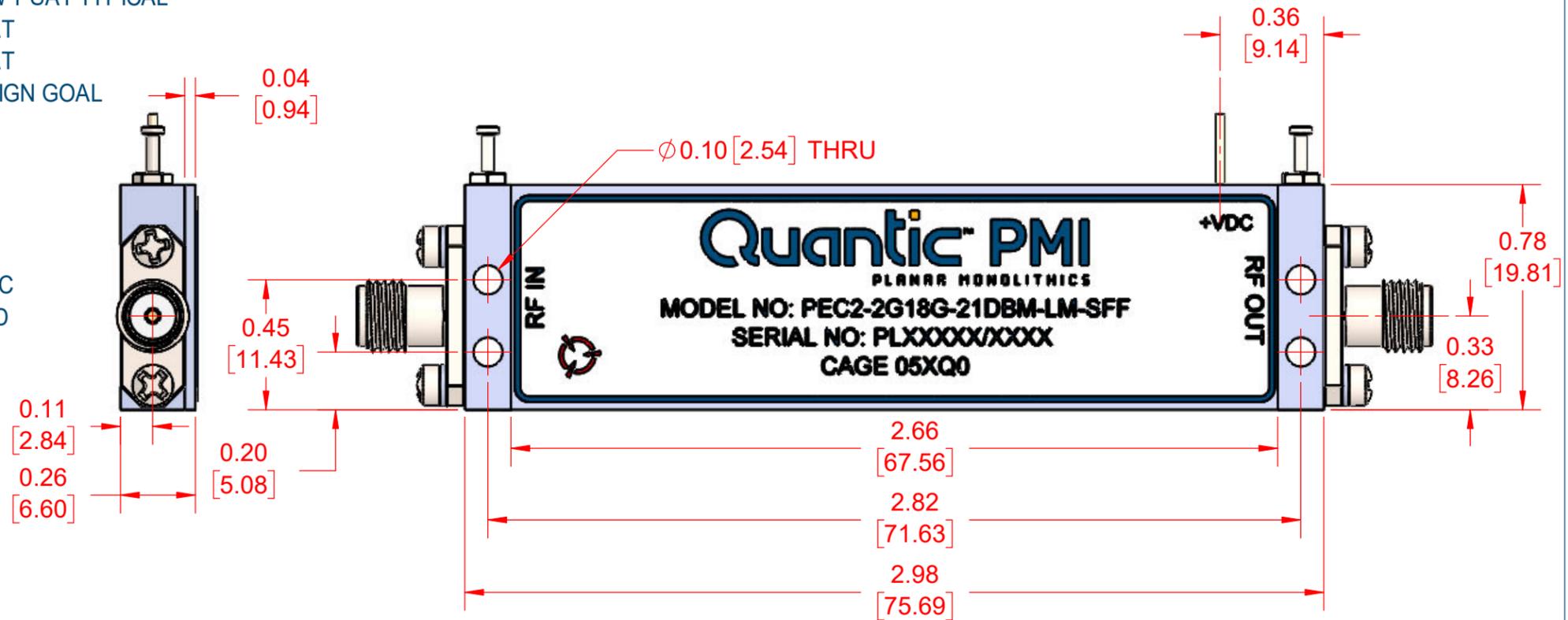
SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- INPUT POWER:..... -45 TO +10 dBm CW
- SATURATED OUTPUT POWER:..... +21.0 dBm TO 25 dBm NOMINAL
- OUTPUT POWER VARIATION:..... +/-2.0 dBm MAX. OVER OPERATING TEMPERATURE RANGE
- OP1DB:..... 4 dBm BELOW PSAT TYPICAL
- 2ND HARMONIC REJECTION:..... -8 dBc @ PSAT
- 3RD HARMONIC REJECTION:..... -9 dBc @ PSAT
- 3RD ORDER INTERCEPT POINT:..... 35 dBm - DESIGN GOAL
- VSWR INPUT/OUTPUT:..... 2.0:1 MAX
- MAXIMUM RF INPUT POWER:..... +17 dBm CW
- DC VOLTAGE SUPPLY:..... +15 VDC *
- DC CURRENT DRAW:..... 700 MA MAX
- CONNECTORS:..... SMA(F)
- OPERATING TEMPERATURE:..... -40°C TO +85°C
- FINISH:..... GOLD PLATED

* (INCLUDING REVERSE POLARITY PROTECTION AND OVER VOLTAGE PROTECTION UP TO +/-25 VDC)

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +100°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



PMI CONFIDENTIAL AND PROPRIETARY

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS		DATE	Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
		DRAWN KM REDRAWN	DATE 2/25/2011	TITLE OUTLINE PEC2-2G18G-21DBM-LM-SFF		
SIZE B		FSCM NO. 05XQ0	DWG NO. 27014221	REV. B2	SCALE 2:1 SHEET 1 OF 1	