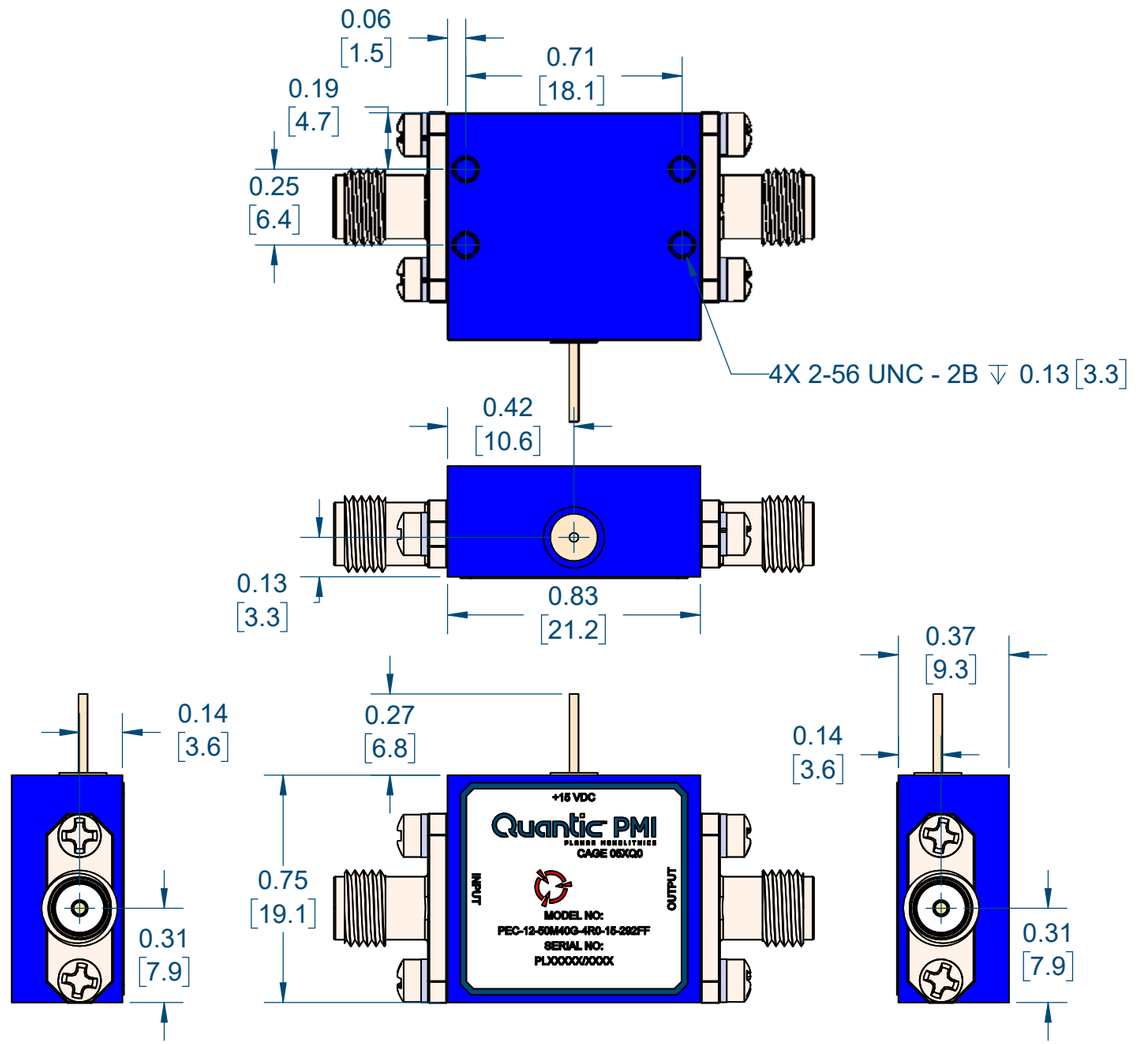
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/7/24	
	B1	ECN # 24-0294	10/17/24	
	C1	ECN # 25-0137	5/6/25	

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NO: PEC-12-50M40G-4R0-15-292FF IS AN AMPLIFIER OPERATING OVER THE 50 MHz TO 40 GHz FREQUENCY RANGE. THIS MODEL OFFERS A GAIN OF 10 dB MINIMUM WHILE MAINTAINING A MAXIMUM FLATNESS OF ±2.5 dB.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 50 MHz TO 40.0 GHz
- GAIN:..... +10 dB MINIMUM
- FLATNESS:..... ±2.5 dB MAXIMUM
- NOISE FIGURE:..... 8.5 dB MAXIMUM [0.05 GHz TO 0.5 GHz]
  5.5 dB MAXIMUM [0.5 GHz TO 31 GHz]
  8.5 dB MAXIMUM [31 GHz TO 40 GHz]
- P1dB COMPRESSION:..... +13 dBm MINIMUM
- VSWR IN:..... 2.8:1 MAXIMUM [0.1 GHz TO 40 GHz]
- VSWR OUT:..... 2.8:1 MAXIMUM [0.05 GHz TO 35 GHz]
  3.3:1 MAXIMUM [35 GHz TO 40 GHz]
- POWER SUPPLY:..... +12 VDC (±5%) @ 300 mA MAX.
- CONNECTORS:..... 2.92 mm FEMALE
- SIZE:..... 0.83" x 0.75" x 0.37"
  21.2 mm x 19.1 mm x 9.3 mm
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 0°C TO +85°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- 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 CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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 .XX ± 0.02 .XXX ± 0.01 ANGLES ±

APPROVALS	DATE
DRAWN D. HOSCHAR	10/17/24
REDRAWN	
ISSUED	

Quantic PMI
PLANAR MONOLITHICS
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ISO 9001 CERTIFIED

TITLE: Outline
PEC-12-50M40G-4R0-15-292FF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27002980-B	C1

SCALE 2:1 SHEET 1 OF 1