

DESCRIPTION:

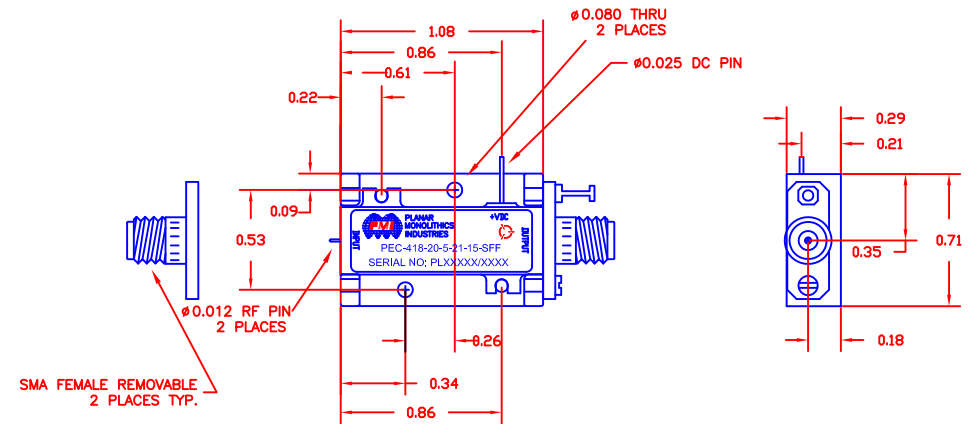
PEC-418-20-5-21-15-SFF IS A 4 TO 18 GHz AMPLIFIER WITH A GAIN OF 19.5 dB MIN. AND A GAIN FLATNESS OF ± 1.5 dB MAX. THIS MODEL HAS A NOISE FIGURE OF 5.0 dB TYP AND USES FEMALE SMA FIELD REPLACEABLE CONNECTORS.

| REVISIONS | | | | |
|-----------|------|-------------|---------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | 1 | Preliminary | 3/22/21 | |
| | | | | |
| | | | | |

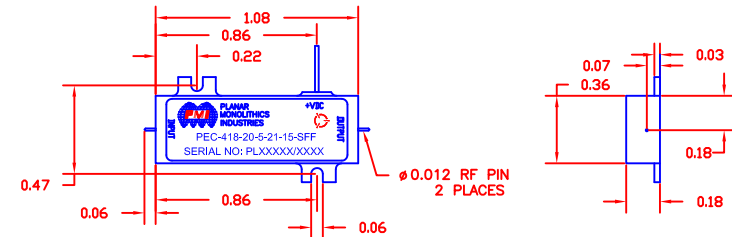
SPECIFICATIONS @ +25°C Unless Otherwise Noted

| | MIN | TYP | MAX | UNITS | CONDITION |
|--|--------------------|-----------|-----------|--------|-----------------------------------|
| FREQUENCY RANGE: | 4.0 | | 18.0 | GHz | |
| GAIN: | 19.5 | | 22.5 | dB | |
| GAIN FLATNESS: | | | ± 1.5 | dB | Over Freq Within Gain Window |
| GAIN MATCHING: | | ± 0.5 | | dB | Unit to Unit Per Order vs Freq |
| GAIN ROLL-OFF OVER 17-18 GHz BAND | | 0.5 | 1.5 | | Gain Roll-off as a goal to be "0" |
| NOISE FIGURE: | | 5.0 | 6.0 | dB | |
| POWER OUTPUT : @ 1 dB COMPRESSION POINT | +22.0 | +23.0 | | dBm | Over 4.0 to 12.5 GHz |
| | +21.0 | +22.0 | | dBm | Above 12.5 to 18 GHz |
| VSWR INPUT: | | 1.6:1 | 2.0:1 | | |
| VSWR OUTPUT: | | 1.6:1 | 2.0:1 | | |
| 3rd ORDER ICP: | | +29 | | dBm | Two-Tone (Output) |
| MAX INPUT POWER: | | | +18 | dBm | CW (Without Damage) |
| DC POWER: | +12 | | +15 | VDC | (+18 VDC Absolute Max) |
| CURRENT: | | 275 | | mA | |
| SIZE: | 1.31 x 0.76 x 0.35 | | | inches | |
| CONNECTORS: | SMA FEMALE | | | | (Field Replaceable) |
| FINISH: | GOLD PLATED | | | | |

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +75 °C (OPERATING)
-40 °C TO +95 °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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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| APPROVALS | | DATE | TITLE | | | |
|---------------------------|--|---------|---|-------------------|------------------------|-----------|
| DRAWN <i>P. Heraty</i> | | 3/22/21 | PRODUCT FEATURE PEC-418-20-5-21-15-SFF | | | |
| CHECKED | | | SIZE A | FSCM NO. 05XQ0 | DWG NO. Preliminary | REV. 1 |
| ISSUED | | | SCALE N:S | SHEET 1 OF 1 | | |