DESCRIPTION

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE. DATA IS AVAILABLE UPON REQUEST.

SPECIFICATIONS

- FREQUENCY RANGE: ——————————— 2.0 to 20.0 GHZ
- GAIN: ——————————— 45dB TYPICAL
- GAIN FLATNESS: ——————————— ±1.5dB MAXIMUM
- NOISE FIGURE: ——————————— 5.0dB TYPICAL
- OP1dB: ——————————— +22dBm MINIMUM
- VSWR (IN/OUT): ——————————— 2.0:1 MAXIMUM
- CONNECTORS: ——————————— SMA (F) REMOVABLE
- DC SUPPLY: ——————————— +12 TO +15VDC @ 385mA MAXIMUM
- SIZE ——————————— (L) 1.08" X (W) 0.71" X (H) 0.29"

  EXCLUDING CONNECTORS

- FINISH ——————————— GOLD PLATED

FEATURES

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY

AVAILABLE OPTIONS

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ——————————— -54°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
- ALTITUDE: ——————————— MIL-STD-202F, METHOD 105C COND. B
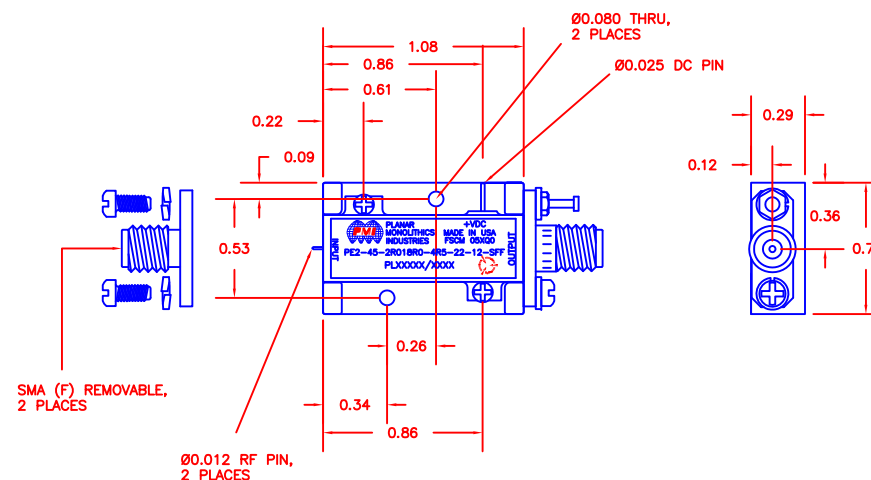- TEMPERATURE CYCLE: ——— MIL-STD-202F, METHOD 107D COND. A

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

MECHANICAL OUTLINE

PE2 HOUSING WITH CARRIER

Ø0.080 THRU, 2 PLACES
Ø0.025 DC PIN
1.08
0.86
0.61
0.22
0.09
0.29
0.12
0.53
0.36
0.71
0.26
0.34
0.86

SMA (F) REMOVABLE, 2 PLACES
Ø0.012 RF PIN, 2 PLACES

PLANAR MONOLITHICS INDUSTRIES
MADE IN USA
FSCM 05XQ0
PE2-45-2R018R0-4R5-22-12-SFF
PLXXXXX/XXXX
+VDC

PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)

0.04
1.08
0.15
0.03
0.10
0.47
0.36
0.36
0.18
0.22
0.64
0.11

PLANAR MONOLITHICS INDUSTRIES
MADE IN USA
FSCM 05XQ0
PE2-45-2R020R0-5R0-22-12-SFF
PLXXXXX/XXXX
+VDC
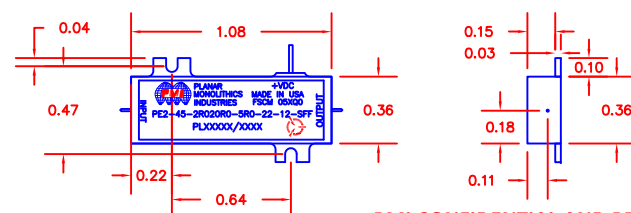
PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN KM	8/1/14
REDRAWN CW	10/16/17
ISSUED	

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

TITLE
PRODUCT FEATURE
PE2-45-2R020R0-5R0-22-12-SFF

SIZE A	FSCM NO. 05XQ0	DWG NO.	REV. —
SCALE N:S		PRELIMINARY	SHEET 1 OF 1

PRELIMINARY