DESCRIPTION

PMI MODEL LNA-28-9K1G-NFF IS A LOW NOISE AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE OF 9 kHz TO 1 GHz. IT HAS A TYPICAL GAIN OF 28 dB AND A MAXIMUM NOISE FIGURE OF 1.5 dB (FROM 10 MHz). THIS MODEL IS OUTFITTED WITH N FEMALE CONNECTORS.

MECHANICAL OUTLINE

SPECIFICATIONS

- FREQUENCY RANGE: -------------------- 9 kHz TO 1 GHz
- NOISE FIGURE (FROM 10 MHz): ------- 1.0 dB TYP, 1.5 dB MAX
- P1dB COMPRESSION POINT: ---------- +8.0 dBm MIN, +10.0 dBm TYP
- NOMINAL SS GAIN @ 25°C: ------------ 26 dB MIN, 28 dB TYP, 30 dB MAX
- GAIN FLATNESS: ------------------------ ±0.75 dB TYP, ±1.0 dB MAX
- GAIN VARIATION: ----------------------- ±1.0 dB
- INPUT VSWR: --------------------------- 1.3:1 TYP, 1.8:1 MAX
- OUTPUT VSWR: ------------------------- 1.2:1 TYP, 1.8:1 MAX
- REVERSE ISOLATION: ------------------ 45 dB MIN
- SPURIOUS: ----------------------------- -70 dBc MAX
- DC VOLTAGE: -------------------------- +11 V MIN, +12 V TYP, +15 V MAX
- DC SUPPLY CURRENT: ----------------- 60 mA MIN, 70 mA TYP, 90 mA MAX
- CONNECTORS: ------------------------- N FEMALE
- FINISH: --------------------------------- PAINTED BLUE

ø0.120 THRU 4 PLACES

1.500
1.100
0.800
1.320
1.600
0.800
1.720
2.000
0.375

PLANAR MONOLITHICS INDUSTRIES
FSCM 05XQ0
MODEL NO: LNA-28-9K1G-NFF
SERIAL NO: PLXXXXX/XXXX

ENVIRONMENTAL RATINGS

- TEMPERATURE: ------------------------ -40 °C TO +75 °C (OPERATING)
  -55 °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

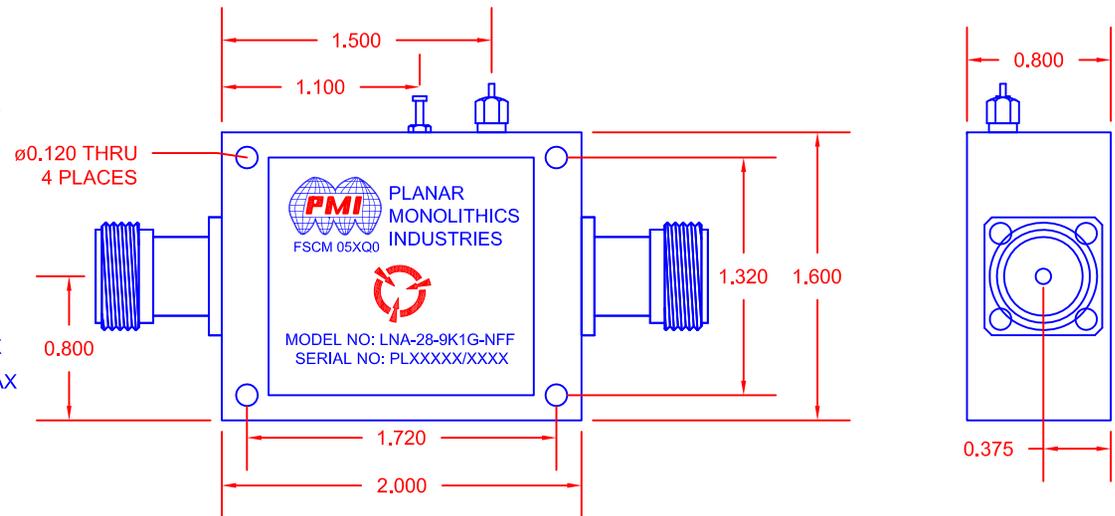NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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ISO 9001 CERTIFIED

TITLE	PRODUCT FEATURE LNA-28-9K1G-NFF		
APPROVALS	DATE		
DRAWN CW	5/17/19		
REDRAWN		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED		SCALE N:S		SHEET 1 OF 1	