

## DESCRIPTION

PMI MODEL: LNA-100K-6G-24-18-TTL IS A LOW NOISE AMPLIFIER THAT OPERATES FROM 100KHz TO 6.0GHz, AND HAS A TTL OUTPUT TO INDICATE WHEN THE AMPLIFIER IS IN SATURATION.

## SPECIFICATIONS

- FREQUENCY RANGE: 100KHz TO 6GHz
- GAIN: 24 dB NOMINAL
- GAIN FLATNESS: 2 dB P-P NOMINAL
- NOISE FIGURE: 5 dB MAX
- PSAT: 18 dBm NOMINAL
- VSWR INPUT / OUTPUT: 2.0:1 MAX
- DC VOLTAGE SUPPLY: +12 TO +15Vdc
- DC CURRENT: 150mA NOMINAL
- TTL OUTPUT: LOGIC 1 WHEN RF OUTPUT IS IN SATURATION

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -20 °C TO +70 °C (OPERATING)  
-65 °C TO +125 °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

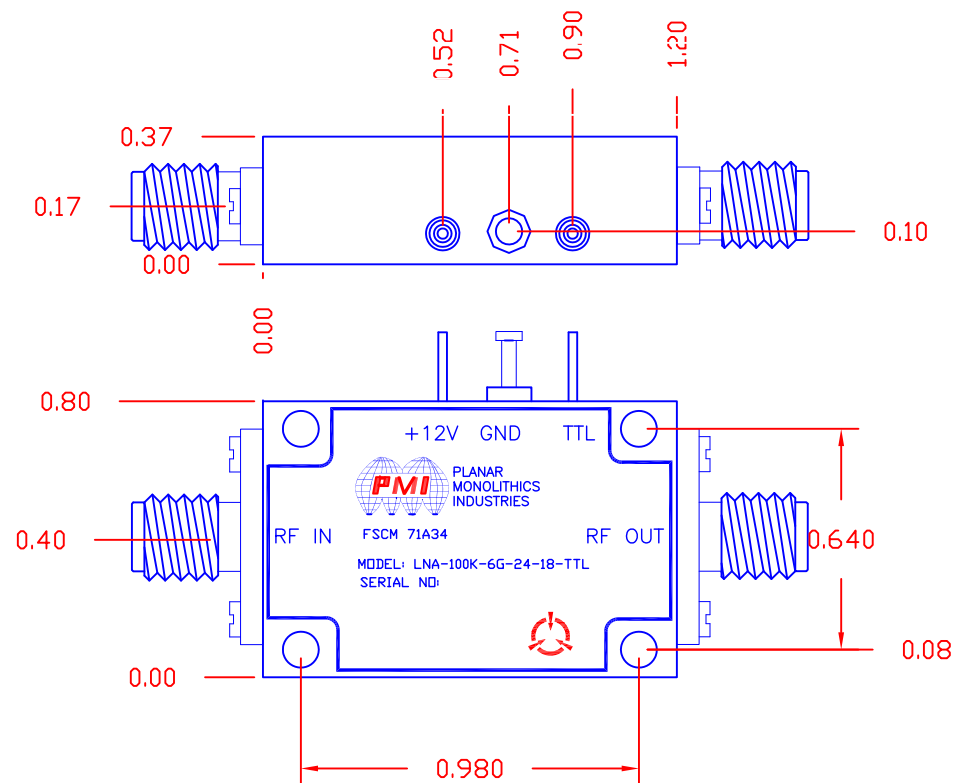
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

| REVISIONS |      |                  |         |          |
|-----------|------|------------------|---------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE    | APPROVED |
|           | 1    | ORIGINAL RELEASE | 8-15-17 | JM       |
|           |      |                  |         |          |
|           |      |                  |         |          |

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT J. MATHEWS PKWY SUITE 1  
EL DORADO HILLS, CA 95762 USA

TEL: (916)-542-1401, FAX: (916)-265-2597

WEB: [www.pmi-rf.com](http://www.pmi-rf.com), EMAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

ISO 9001 CERTIFIED



| APPROVALS |  | DATE     |  | TITLE                 |  |        |
|-----------|--|----------|--|-----------------------|--|--------|
| DRAWN     |  | J.M.     |  | PRODUCT FEATURE       |  |        |
| CHECKED   |  |          |  | LNA-100K-6G-24-18-TTL |  |        |
| ISSUED    |  |          |  | PRELIMINARY           |  |        |
| SIZE      |  | FSCM NO. |  | DWG NO.               |  | REV.   |
| A         |  | 71A34    |  |                       |  | 1      |
| SCALE     |  | N:S      |  | SHEET                 |  | 1 OF 1 |