

## DESCRIPTION

PMI MODEL: A-4D-100M18G-27G-6R5N-16P is an ultra-wide bandwidth 50-ohm matched distributed amplifier in a compact housing with 4 mounting holes to improve contact for heat transfer between chassis and heatsink.

### Features:

- Unconditionally stable under all terminations, open to short
- Unconditionally stable over temperature
- Integrated input/output blocking capacitors
- Single positive power supply
- Internal DC regulated voltage
- Internal reverse polarity protection
- Field replaceable SMA connectors

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 100 MHz TO 18 GHz
- GAIN: ----- 27 dB MIN.
- GAIN FLATNESS: -----  $\pm 2$  dB MAX.
- NOISE FIGURE: ----- 6.5 dB MAX.
- VSWR IN: ----- 2.0:1 MAX.
- VSWR OUT: ----- 2.3:1 MAX.
- P1DB OUT: ----- 16 dBm MIN.
- DC POWER SUPPLY: ----- +15 V @ 200 mA NOM.
- CONNECTORS (IN/OUT): ----- SMA FEMALE
- FINISH: ----- GOLD PLATED

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -25 °C TO +75 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)

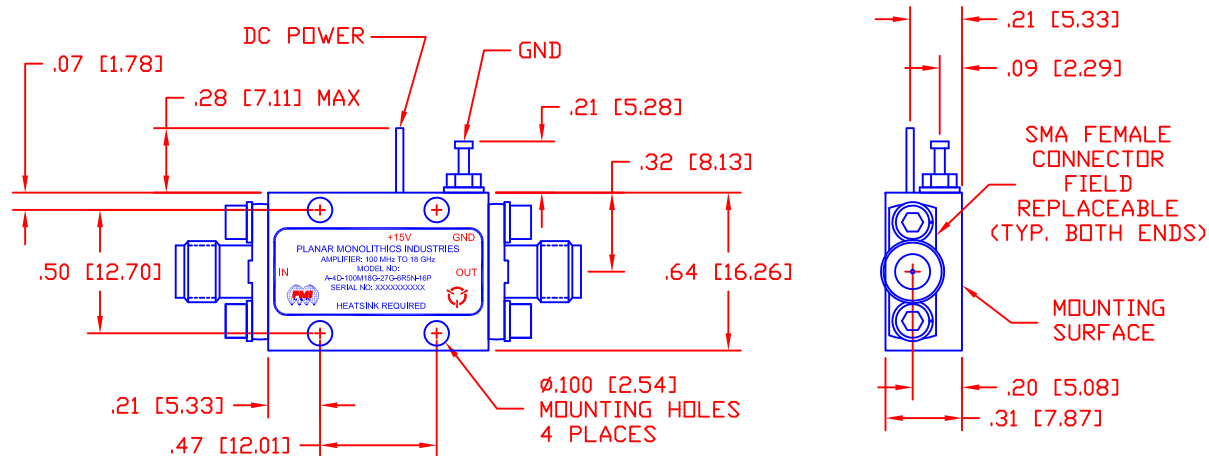
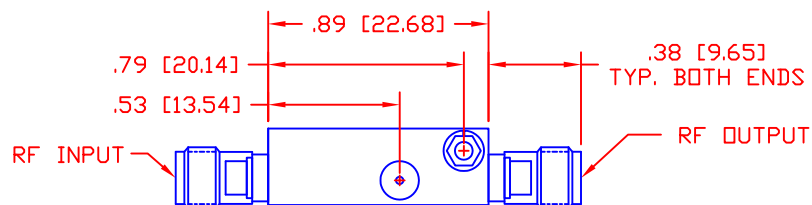
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES:  
X,XX  $\pm 0.020$   
X,XXX  $\pm 0.010$

| REVISIONS |      |             |           |          |
|-----------|------|-------------|-----------|----------|
| ZONE      | REV. | DESCRIPTION | DATE      | APPROVED |
|           | —    | PRELIMINARY | 6/17/2016 |          |
|           |      |             |           |          |
|           |      |             |           |          |

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



| APPROVALS        |  | DATE     | TITLE   |          |         |             | REV. |
|------------------|--|----------|---|----------|---------|-------------|------|
| DRAWN <i>EJB</i> |  | 20160617 | PRODUCT FEATURE<br>AMPLIFIER 100 MHz TO 18 GHz<br>A-4D-100M18G-27G-6R5N-16P |          |         |             | -    |
| CHECKED          |  |          | SIZE  | FSCM NO. | DWG NO. | PRELIMINARY |      |
| ISSUED           |  |          | A   | 05XQ0    |         |             |      |
|                  |  |          | SCALE   | N:S      | SHEET   | 1 OF 1      |      |