

## DESCRIPTION

PMI MODEL: A-4D-4G12G-36G-4R5N-13P is a wide bandwidth 50-ohm matched low noise amplifier in a compact housing with 4 mounting holes to improve contact for heat transfer between chassis and heat sink.

### 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 FROM -20 +50° C UNLESS OTHERWISE SPECIFIED

- Frequency Range: ----- 4.0 GHz to 12.0 GHz
- Gain: ----- 36 dB Min., 44 dB Max.
- Gain Flatness vs Frequency: ----- ±2.0 dB Max..
- Gain Variation vs Temperature : ----- ±2.0 dB Max.
- Noise Figure: ----- 4.5 dB Max..
- VSWR Input: ----- 2.0 : 1 Max.
- VSWR Output: ----- 2.0 : 1 Max.
- P1dB Out: ----- 13 dBm Min.
- IP3 Out: ----- 20 dBm Typ.
- IP2 Out: ----- 30 dBm Typ.
- Allowable Maximum Input Power: ----- 10 dBm Max.
- DC Power Supply: ----- +15V @ 150 mA Nom.
- Gain Flatness Matching: ----- ±1.0 dB Max.
- Phase Matching: ----- NA
- Connectors (In/Out): ----- SMA Female
- Finish: ----- Gold Plated

## ENVIRONMENTAL RATINGS

- Temperature: ----- -20 °C to +50 °C (Operating)  
-40 °C to +55 °C (Non-Operating)
- HUMIDITY: ----- RH 45 to 85% Max.

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

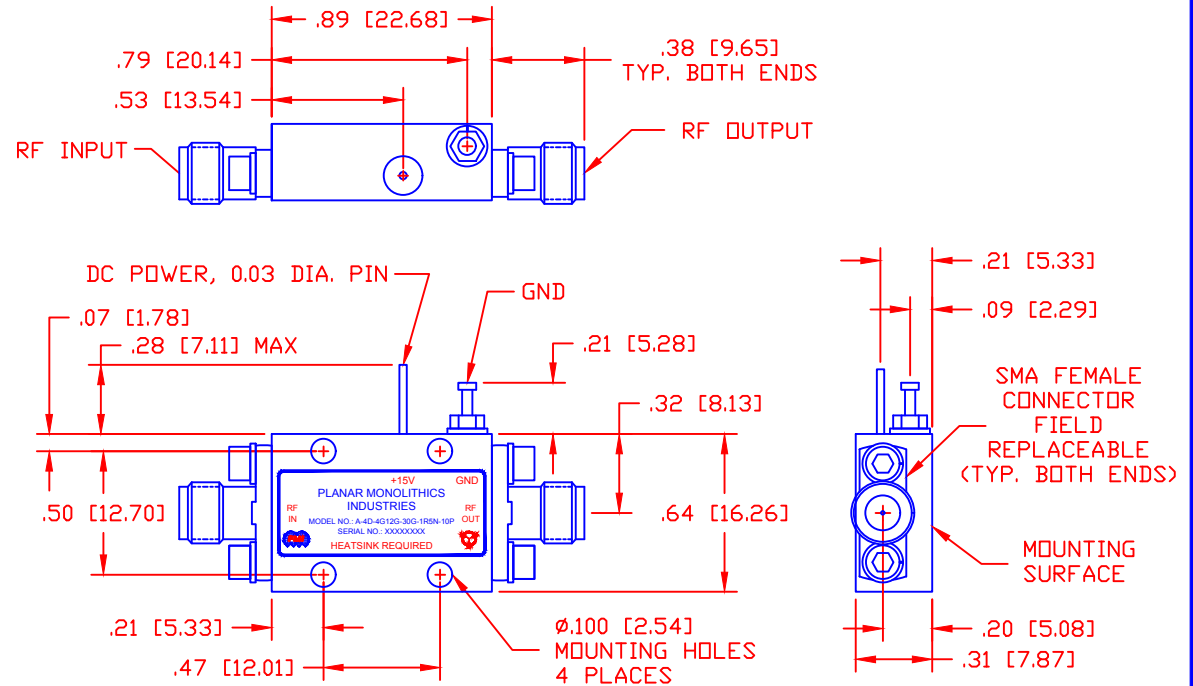
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS  
ARE IN INCHES (mm)  
TOLERANCES (INCHES):  
X.XX ±0.010  
X.XXX ±0.005

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	7/18/2017	HAI SAY

## MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>HAI SAY</i>		07/18/17	PRODUCT FEATURE LOW NOISE AMPLIFIER: 4.0 TO 12.0 GHz A-4D-4G12G-36G-4R5N-13P			-
CHECKED <i>HAI SAY</i>		07/18/17	SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S	SHEET 1 OF 1		