

DESCRIPTION

PMI MODEL: A-5D-2G20G-40G-3R0N-20P is a wide bandwidth 50-ohm matched low noise amplifier. It is built with STATE-OF-THE-ART super low noise Pseudomorphic High Electron Mobility Transistor (PHEMT) chips, housed 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 AT +25 °C

- Frequency Range: ----- 2 to 20 GHz
- Gain: ----- 39 dB min., 42.0 dB nominal
- Gain Flatness: ----- ±1.5 dB max.
- Noise Figure: ----- 2.8 dB max. (Input DC coupled)
3.0 dB max. (input AC coupled)
- P1dB: ----- +19 dBm min., +20 dBm typical
- VSWR IN / OUT: ----- 2.0:1 max.
- DC Power Supply: ----- +12 ± 1 V @ 250 mA max.
- Connectors (IN/OUT): ----- SMA female
- Finish: ----- Gold plated

ENVIRONMENTAL RATINGS

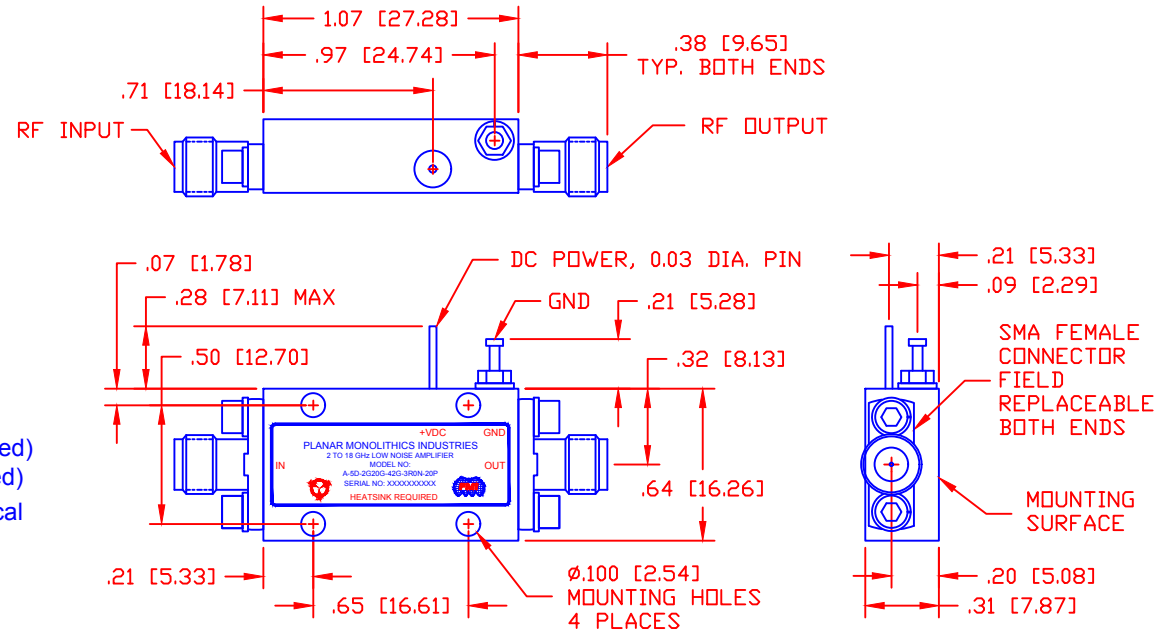
- Temperature: ----- -40 °C TO +80 °C (Operating)
-40 °C TO +100 °C (Storage)
- Humidity: ----- 95% RH at +45 °C

NOTE: SPECIFICATIONS VARY OVER OPERATING TEMPERATURE
NOTE: SPECIFICATIONS SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	6/20/2017	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>HAF LAY</i>		06/20/17	PRODUCT FEATURE LOW NOISE AMPLIFIER			
CHECKED <i>HAF LAY</i>		06/20/17	MODEL NUMBER: A-5D-2G20G-40G-3R0N-20P			
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
			SCALE N:S			SHEET 1 OF 1