

DESCRIPTION

PMI MODEL: A-3D-12G18G-22G-4R0N-10P 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: ----- 12.0 GHz to 18.0 GHz
- Gain: ----- 22 dB Min., 25 dB Max.
- Gain Flatness vs Frequency: ----- ±0.75 dB Max., ±1.0 dB Max.
- Gain Variation vs Temperature : ----- ±0.75 dB Max.
- Noise Figure: ----- 4.0 dB Max.
- VSWR Input: ----- 2.0 : 1 Max.
- VSWR Output: ----- 2.0 : 1 Max.
- P1dB Out: ----- 10 dBm Min.
- IP3 Out: ----- 20 dBm Typ.
- IP2 Out: ----- 30 dBm Typ.
- Allowable Maximum Input Power: ----- 10 dBm Max.
- DC Power Supply: ----- +15V @ 130 mA Nom.
- Gain Flatness Matching: ----- NA
- Phase Matching: ----- NA
- Operating Temperature: ----- -20° C TO +50° C
- Connectors (In/Out): ----- SMA Female
- Finish: ----- Gold Plated

ENVIRONMENTAL RATINGS

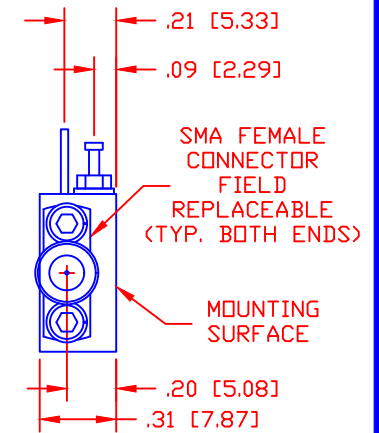
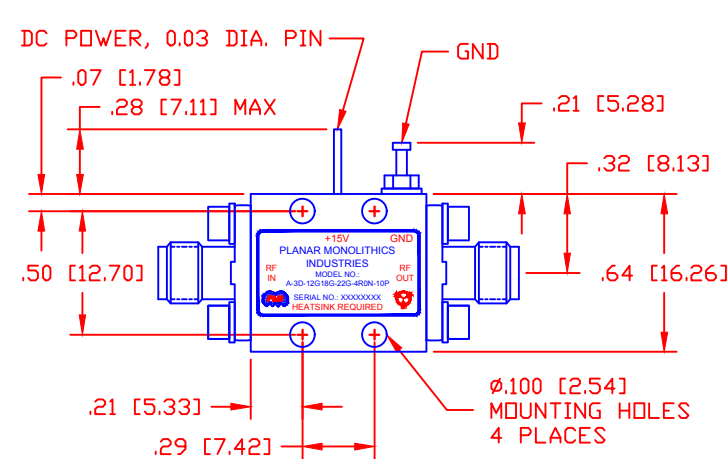
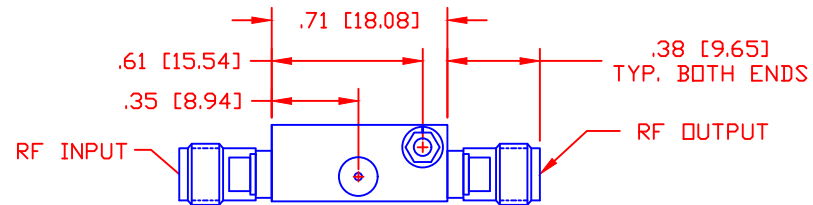
- Temperature: ----- -20 °C to +50 °C (Operating)
-40 °C to +55 °C (Non-Operating)
- HUMIDITY: ----- RH 45 to 85% Max.

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	7/19/2017	HAI SAY

MECHANICAL OUTLINE



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

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS					DATE		TITLE			
DRAWN		<i>HAI SAY</i>			07/19/17		PRODUCT FEATURE LOW NOISE AMPLIFIER: 12.0 TO 18.0 GHz A-3D-12G18G-22G-4R0N-10P			
CHECKED		<i>HAI SAY</i>			07/19/17		SIZE	FSCM NO.	DWG NO.	REV.
ISSUED							A	05XQ0	PRELIMINARY	-
							SCALE	N:S	SHEET	1 OF 1