

DESCRIPTION

PMI MODEL: A-3D-600M2G-30G-1R0N-10P is a wide bandwidth 50-ohm matched temperature compensated low noise amplifier in a compact housing.

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 -25 TO + 70 °C

- Frequency Range: ----- 600 MHz to 2 GHz
- Gain: ----- 30.0 dB min., 34.0 dB max.
- Gain Flatness: ----- ±1.5 dB max.
- Noise Figure: ----- 1.0 dB min., 1.5 dB max.
- P1dB OUT: ----- +10 dBm min.
- Third Order Intercept: ----- +20 dBm min., +23 dBm goal
- Harmonics at +5 dBm Input: ----- -8 dBc min.
- VSWR IN / OUT: ----- 2.0:1 max.
- DC Power Supply: ----- +12 ± 1 V @ 160 mA max.
- Connectors (IN/OUT): ----- SMA female
- Finish: ----- Gold plated

ENVIRONMENTAL RATINGS

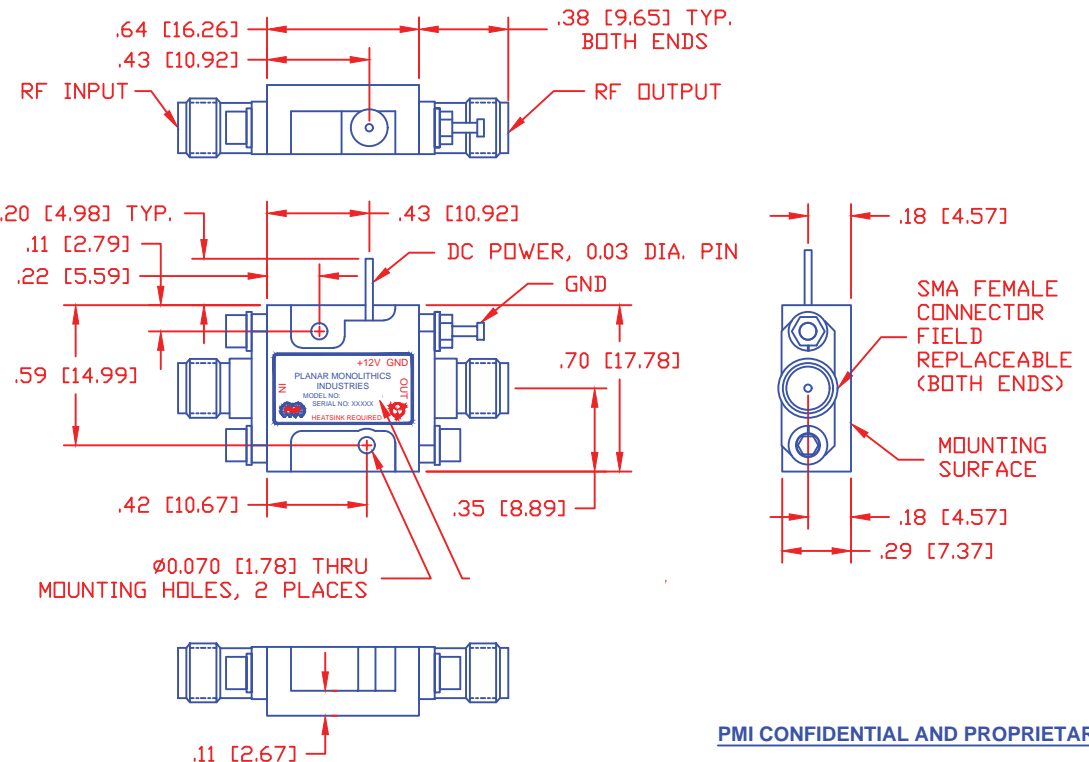
- Temperature: ----- -25 °C TO +70 °C (Operating)
-40 °C TO +100 °C (Storage)
- Humidity: ----- 95% RH at +45 °C
- Vibration (Operating): ----- 20 mm Peak to Peak at 2 - 5 Hz
10 mm Peak to Peak at 5 - 10 Hz
1.5 mm Peak to peak at 11 - 15 Hz
1.0 mm Peak to Peak at 16 - 25 Hz
0.5 mm Peak to Peak at 26 - 33 Hz
- Shock (Non Operating): ----- 20 G at 11 ms

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	6/8/2017	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	<i>HAF LAY</i>	06/08/17	PRODUCT FEATURE			-
CHECKED	<i>HAF LAY</i>	06/08/17	LOW NOISE AMPLIFIER			
ISSUED			MODEL NUMBER: A-3D-600M2G-30G-1R0N-10P			
SIZE	A	FSCM NO.	05XQ0	DWG NO.	PRELIMINARY	
SCALE			N:S	SHEET		1 OF 1