

## DESCRIPTION

PMI MODEL: A-5D-8G18G-33G-2R5N-15P 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: ----- 8 to 18 GHz
- Gain: ----- 32.5 dB min., 38.5 dB max.
- Gain Flatness: ----- ±2.0 dB max.
- Noise Figure: ----- 2.5 dB min., 3.1 dB max.
- P1dB OUT: ----- +15 dBm min.
- Third Order Intercept: ----- +23 dBm typ.
- Harmonics at +5 dBm Input: ----- -8 dBc min.
- 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

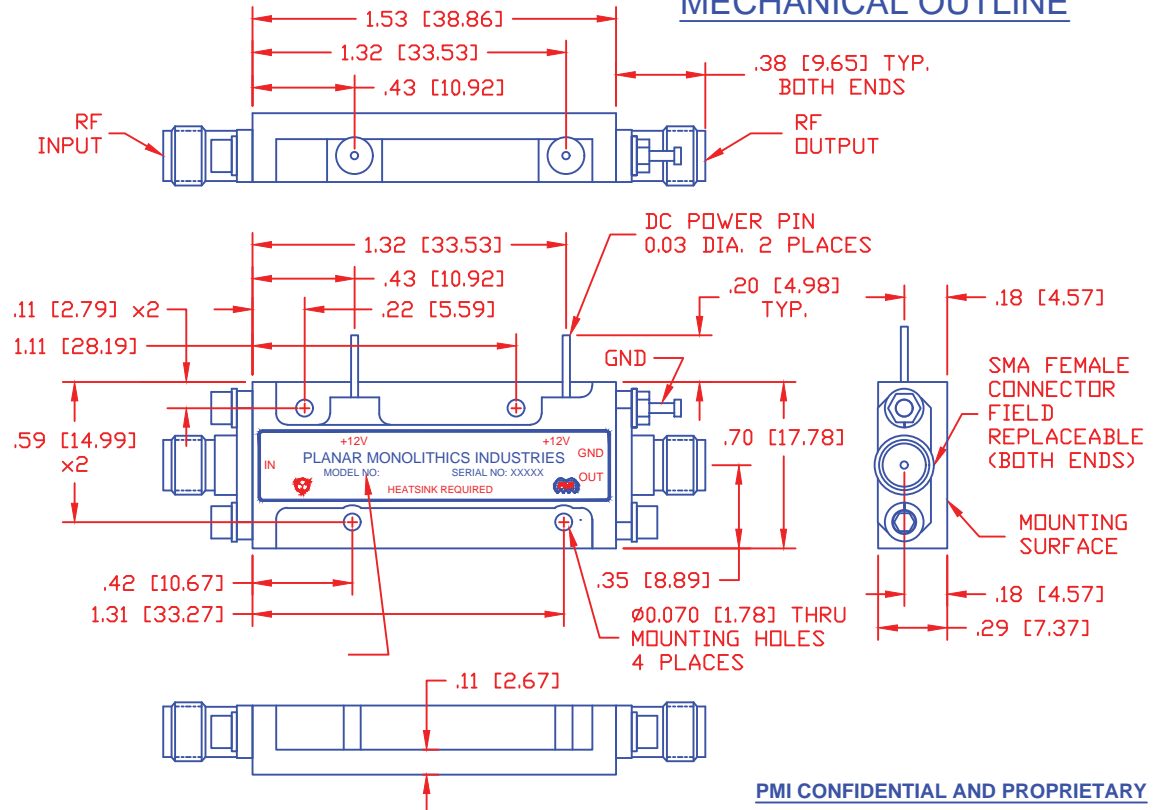
- Temperature: ----- -25 °C TO +70 °C (Operating)  
-40 °C TO +100 °C (Storage)
- Humidity: ----- 95% RH at +45 °C
- Vibration (Operating): ----- 20 mm Peak to Peak at 2 - 5 Hz  
10 mm Peak to Peak at 5 - 10 Hz  
1.5 mm Peak to peak at 11 - 15 Hz  
1.0 mm Peak to Peak at 16 - 25 Hz  
0.5 mm Peak to Peak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

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	<i>HAF LAY</i>	06/08/17	PRODUCT FEATURE LOW NOISE AMPLIFIER			-
CHECKED	<i>HAF LAY</i>	06/08/17	MODEL NUMBER: A-5D-8G18G-33G-2R5N-15P			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	05XQ0	PRELIMINARY	
			SCALE	N:S	SHEET	1 OF 1