

DESCRIPTION

PMI MODEL: A-4D-4R4G5R1G-45G-R7N-13P is a narrow 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 AT +25° C UNLESS OTHERWISE SPECIFIED

- FREQUENCY RANGE: ----- 4.4 GHz TO 5.1 GHz
- GAIN: ----- 45 dB MIN.
- GAIN FLATNESS: ----- ±1.0 dB MAX.
- NOISE FIGURE: ----- 0.5 dB TYP.
DC COUPLED
- NOISE FIGURE: ----- 0.5 dB TYP.
AC COUPLED
- P1DB OUT: ----- 13 dBm MIN.
- MAX. SAFE INPUT POWER: ----- 10 dBm MIN.
- VSWR IN: ----- 1.5 : 1 MAX.
- VSWR OUT: ----- 1.5 : 1 MAX.
- DC POWER SUPPLY: ----- +5V @ 150 mA NOM.
- OPERATING TEMPERATURE: ----- +5° C TO +60° C
- OPERATING RELATIVE HUMIDITY
(NON-CONDENSING): ----- 90% OR MORE
- CONNECTORS (IN/OUT): ----- SMA FEMALE
- FINISH: ----- GOLD PLATED

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +75 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

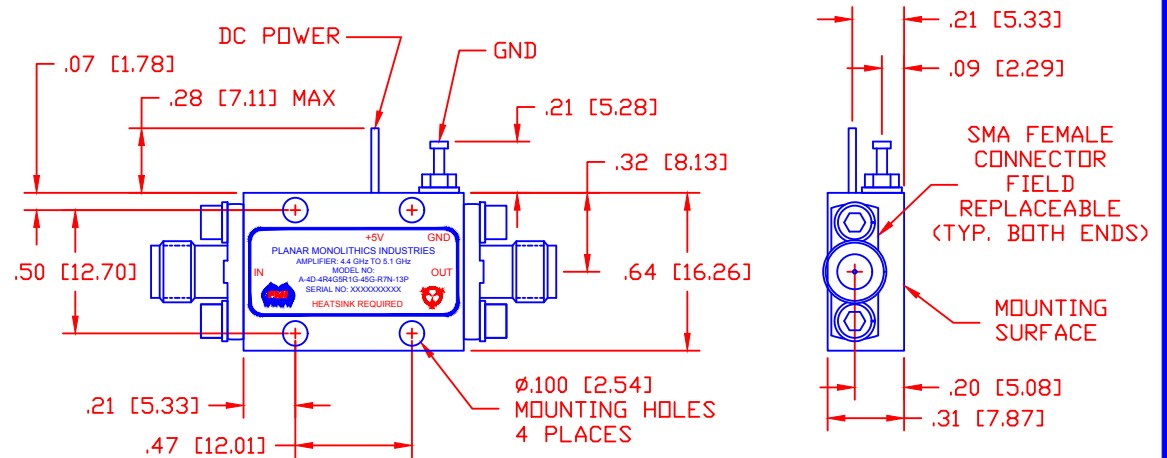
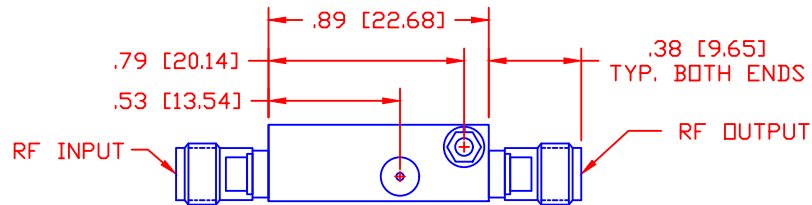
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	10/5/2016	HAI SAY

MECHANICAL OUTLINE



PLANAR MONOLITHIC 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			
DRAWN	HAI SAY	10/05/16	PRODUCT FEATURE LOW NOISE AMPLIFIER: 4.4 GHz TO 5.1 GHz A-4D-4R4G5R1G-45G-R7N-13P			
CHECKED	HAI SAY	10/05/16	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1