

DESCRIPTION

PMI MODEL PA-40-17D521D5-5R0-36-12-292FF IS A MEDIUM POWER AMPLIFIER THAT OPERATES OVER THE FREQUENCY RANGE 17.5 TO 21.5 GHz. IT HAS A NOMINAL GAIN OF 40dB TYPICAL WITH A GAIN FLATNESS SPECIFICATION OF ± 1.75 dB MAXIMUM, AND HAS A NOISE FIGURE OF 8dB MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 17.5 TO 21.5 GHz
- NOISE FIGURE @ +25°C: 5.0dB TYP, 8.0dB MAX
- P-1dB COMPRESSION POINT: +36dBm MIN, +37dBm TYP
- OUTPUT IP3: +43dBm MIN, +45dBm TYP
- NOMINAL GAIN @ +25°C: 37dB MIN, 40dB TYP
- GAIN FLATNESS OVER FREQUENCY: ± 1.5 dB TYP, ± 1.75 dB MAX
- GAIN VARIATION OVER TEMPERATURE: ± 2.5 dB TYP
- VSWR (INPUT/OUTPUT): 1.8:1 TYP, 2.5:1 MAX
- SPURIOUS: -60dBc MAX
- SURVIVAL TEMPERATURE: -45°C MIN TO +125°C MAX
- POWER SUPPLY: +9 TO +12VDC @ 3.5A TYP, 5.0A MAX
- CONNECTORS: SMA FEMALE
- SIZE: (L) 2.6" X (W) 2.0" X (H) 0.5"
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

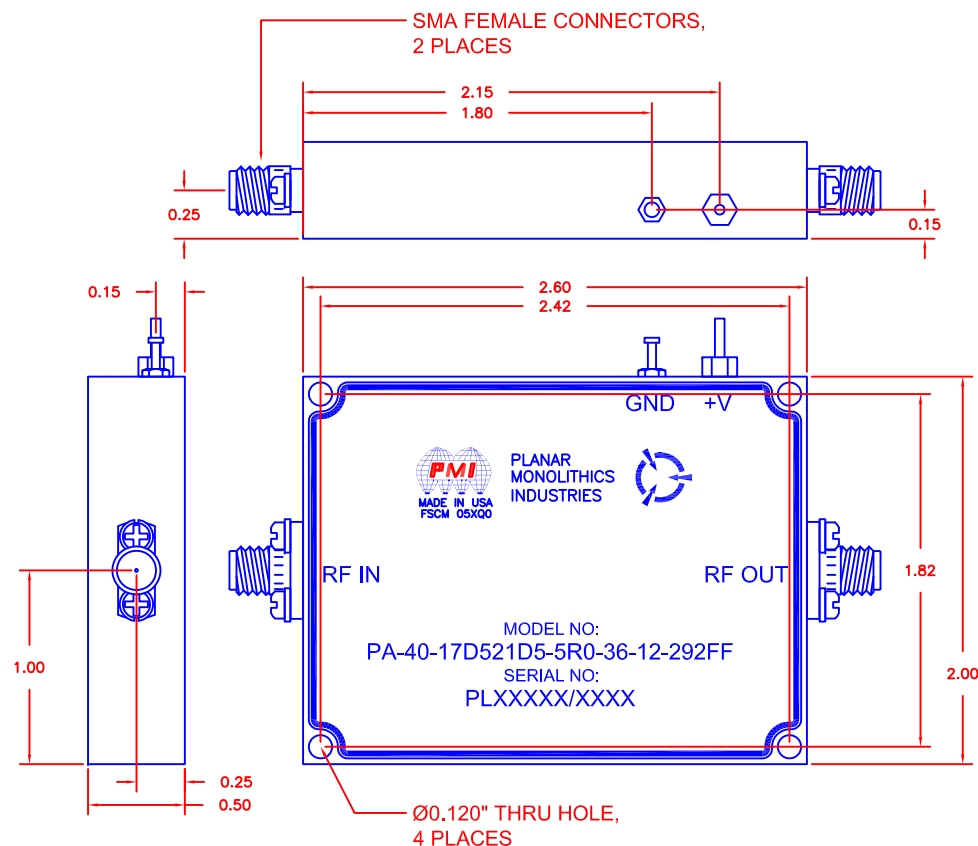
- TEMPERATURE: -20°C TO +75°C (OPERATING)
-55°C TO +85°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	09/06/13

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
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		09/06/13		PRODUCT FEATURE	
CHECKED				PA-40-17D521D5-5R0-36-12-292FF	
ISSUED					
SIZE	FSCM NO.	OWG NO.	REV.		
A	05XQ0	27020941	A1		
SCALE N:S		SHEET		1 OF 1	