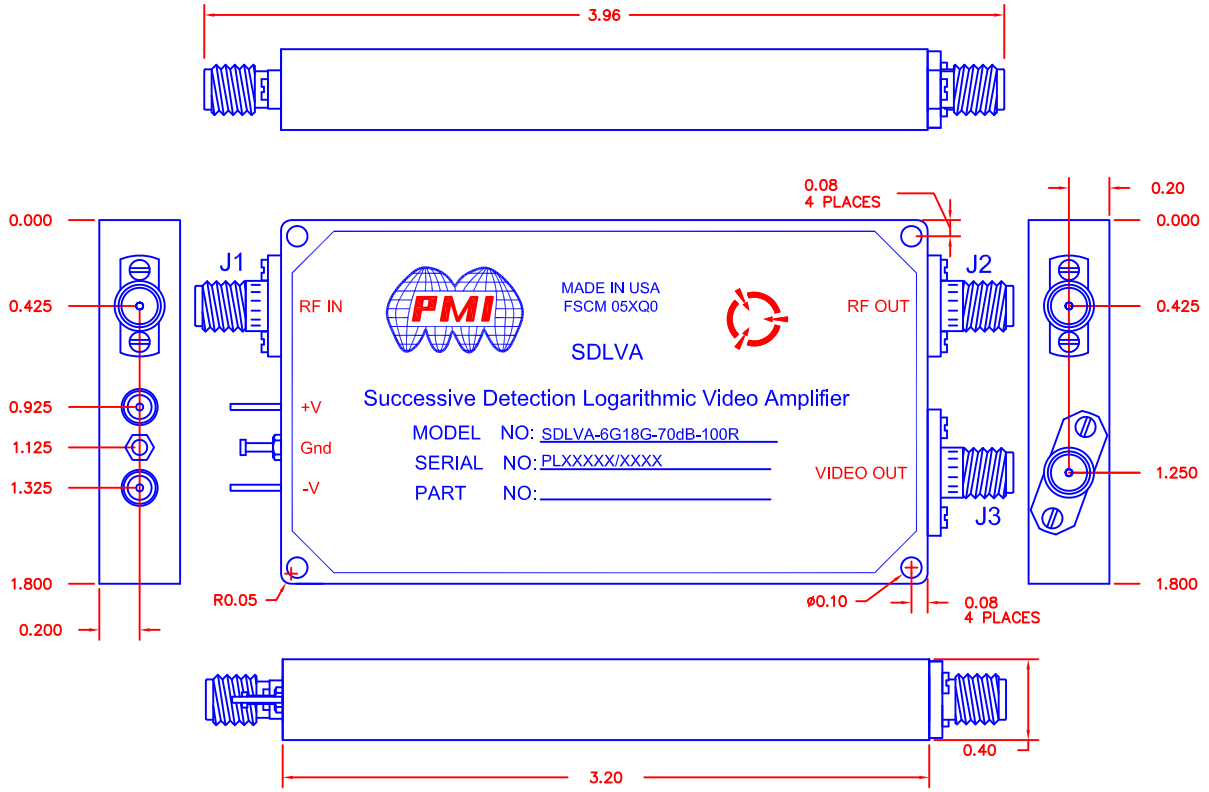
DESCRIPTION:

PMI MODEL NUMBER SDLVA-6G18G-70dB-100R IS A SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER (SDLVA) DESIGNED TO OPERATE OVER THE 6 GHz TO 18 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	7/2/15	

SPECIFICATIONS:

- FREQUENCY: 6.0 GHz TO 18.0 GHz
- RF GAIN (SMALL SIGNAL): 55 dB Typ
- FREQUENCY FLATNESS: ± 2 dB Max
- TSS: -73 dB Typ, -71 dB Max
- VSWR (50 Ohm): 2.0:1 Max (RF IN, RF OUT)
- PSAT: +13 dBm Typ
- POWER INPUT: +17 dBm CW Max
- LOG SLOPE: 25 mV/dB Typ. 100 Ω LOAD
- LOG RANGE: -70 to 0 dBm
- LOG LINEARITY: ±2.5 dB (-40°C TO +75°C)
- DC OFFSET: 50 ± 50 mV
- PULSE RANGE: 30 ns to CW
- RISE TIME: 10 ns Max (5 ns Typ)
- RECOVERY TIME: 60 ns Max (40 ns Typ)
- POWER SUPPLY: +15V or +12V @ 350 mA NOMINAL
  -15V or -12V @ 180 mA NOMINAL
- CONNECTORS: SMA FEMALE CONNECTORS
- SIZE: 3.2" X 1.8" X 0.4"
- FINISH: GOLD



ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +75°C (OPERATING)
  -65°C TO +125°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
- SALT FOG: MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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
DRAWN PJK	7/2/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
SDLVA-6G18G-70dB-100R

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	—

SCALE N:S SHEET 1 OF 1