

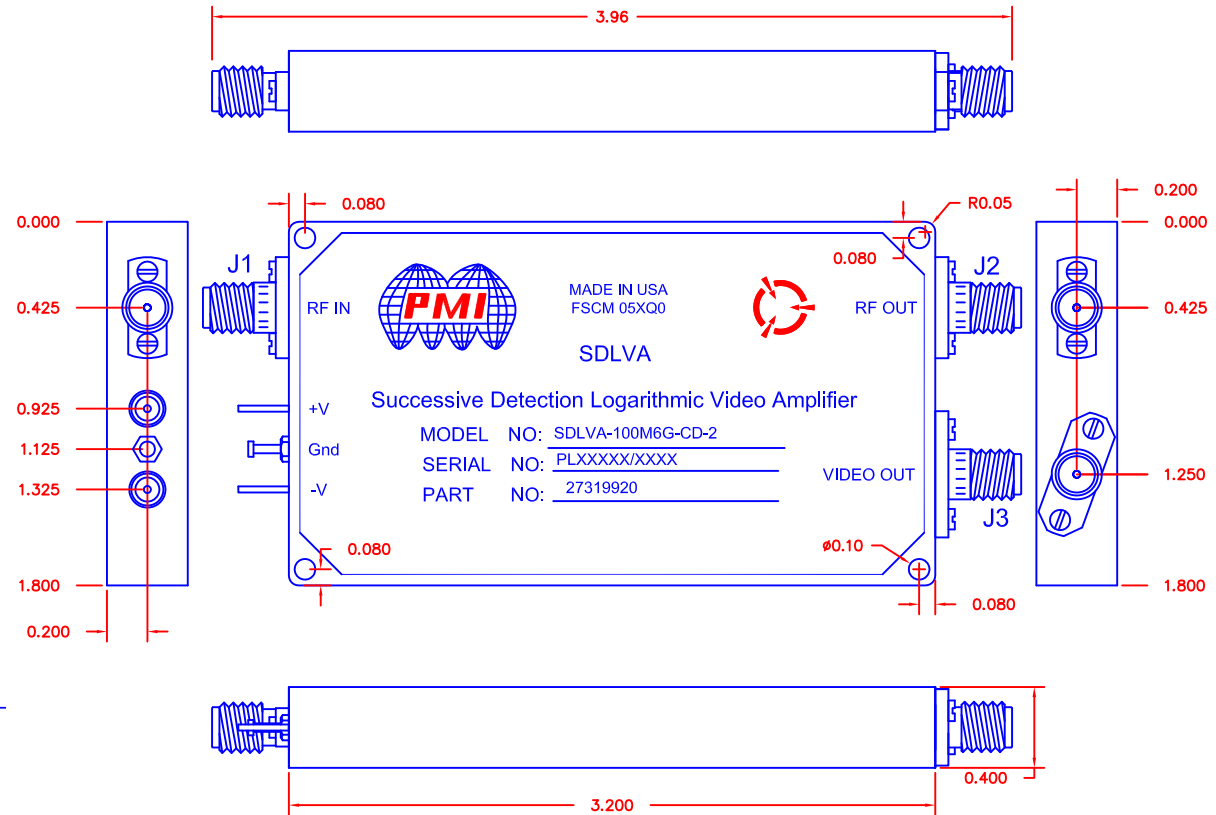
**DESCRIPTION:**

PMI MODEL NUMBER SDLVA-100M6G-CD-2 IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 100MHz TO 6GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	6/4/20	

**SPECIFICATIONS:**

- FREQUENCY: . . . . . 100MHz TO 6.0 GHz
- RF GAIN (SMALL SIGNAL) . . . . . 55 dB Typ
- VIDEO FLATNESS OVER FREQUENCY: . . . . . ± 50mV Max
- TSS: . . . . . -73 dB Typ, -71dB MAX
- VSWR: . . . . . 2.0:1
- PSAT: . . . . . + 13dBm Typ
- HARMONICS(J2): . . . . . 15dBc MIN (-70 to 0dBm J1 Input)  
(EXCLUDING ODD HARMONICS)
- POWER INPUT: . . . . . +17 dBm CW Max
- LOG SLOPE: . . . . . 25 mV/dB Typ. 50 Ω LOAD
- LOG RANGE: . . . . . -70 to 0 dBm
- LOG LINEARITY: . . . . . ±2.5 dB (-40°C - +75°C)
- DC OFFSET: . . . . . 50 ± 50mV
  
- RISE TIME: . . . . . 30 ns (MAX)
- RECOVERY TIME: . . . . . 200 ns (MAX)
- POWER SUPPLY: . . . . . +15V or +12V @ 350 mA NOMINAL  
-15V or -12V @ 180 mA NOMINAL
- SEALING: . . . . . HERMETIC
- CONNECTORS: . . . . . SMA FEMALE CONNECTORS
- FINISH: . . . . . GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY  
POLIMIDE PRIMER IAW MIL-DTL-53022E TYPE IV, LEAD FREE CHROMATE.
- MOUNTING SURFACE: . . . . . CHEMICAL CONVERSION COATING - MIL-C-5541, CLASS 1A



**PMI CONFIDENTIAL & PROPRIETARY**

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 ISO 9001:2008 CERTIFIED



**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

APPROVALS		DATE	TITLE		
DRAWN <i>JPH</i>		6/4/20	PRODUCT FEATURE		
CHECKED			SDLVA-100M6G-CD-2		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1