

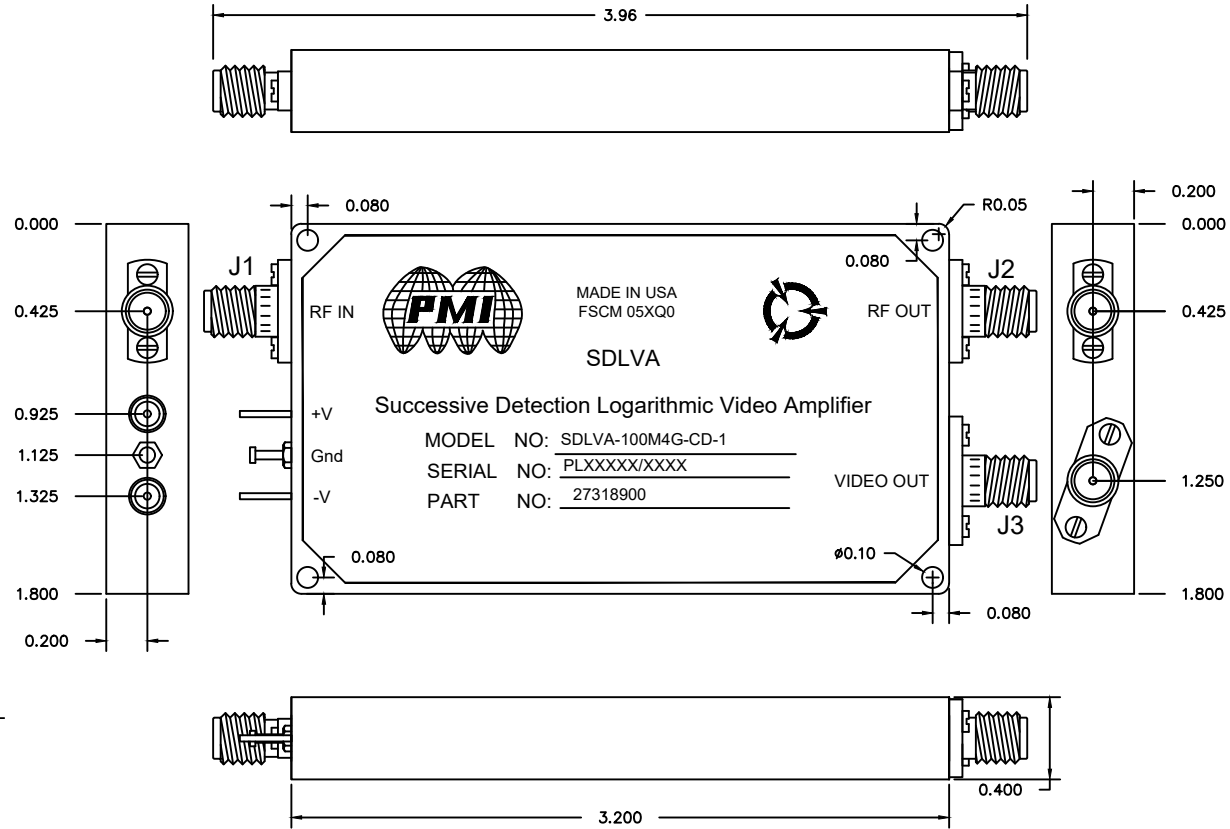
DESCRIPTION:

PMI MODEL NUMBER SDLVA-100M4G-CD-1 IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 100MHz TO 4GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	3/12/13	
	B			
	C			
	D			

SPECIFICATIONS:

- FREQUENCY: 100MHz TO 4.0 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: + 7dBm Typ
- 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
- PULSE RANGE: 100 ns to CW
- RISE TIME: 30 ns (MAX)
- RECOVERY TIME: 200 ns (MAX)
- POWER SUPPLY: +15V or +12V @ 350 mA NOMINAL
-15V or -12V @ 180 mA NOMINAL
- CONNECTORS: SMA FEMALE CONNECTORS



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

PMI CONFIDENTIAL & PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>KM</i>		1/17/13	PRODUCT FEATURE		
CHECKED <i>JM</i>			SDLVA-100M4G-CD-1		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27018901
			SCALE	N:S	SHEET 1 OF 1

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION