

DESCRIPTION:

PMI MODEL NUMBER SDLVA-500M4G-CD-2 IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 500MHz TO 4GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

SPECIFICATIONS:

- FREQUENCY: _____ 500 MHz TO 4.0 GHz
- RF GAIN (SMALL SIGNAL): _____ 55 dB Typ
- VIDEO FLATNESS OVER FREQUENCY: _____ ± 50mV Max
- TSS: _____ -73 dB Typ, -71dB Max
- VSWR J1, J2, J3 (50 Ohm): _____ 2.0:1 Max
- 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
- 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

- SEALING: _____ HERMETIC
- CONNECTORS: _____ SMA FEMALE CONNECTORS
- 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.

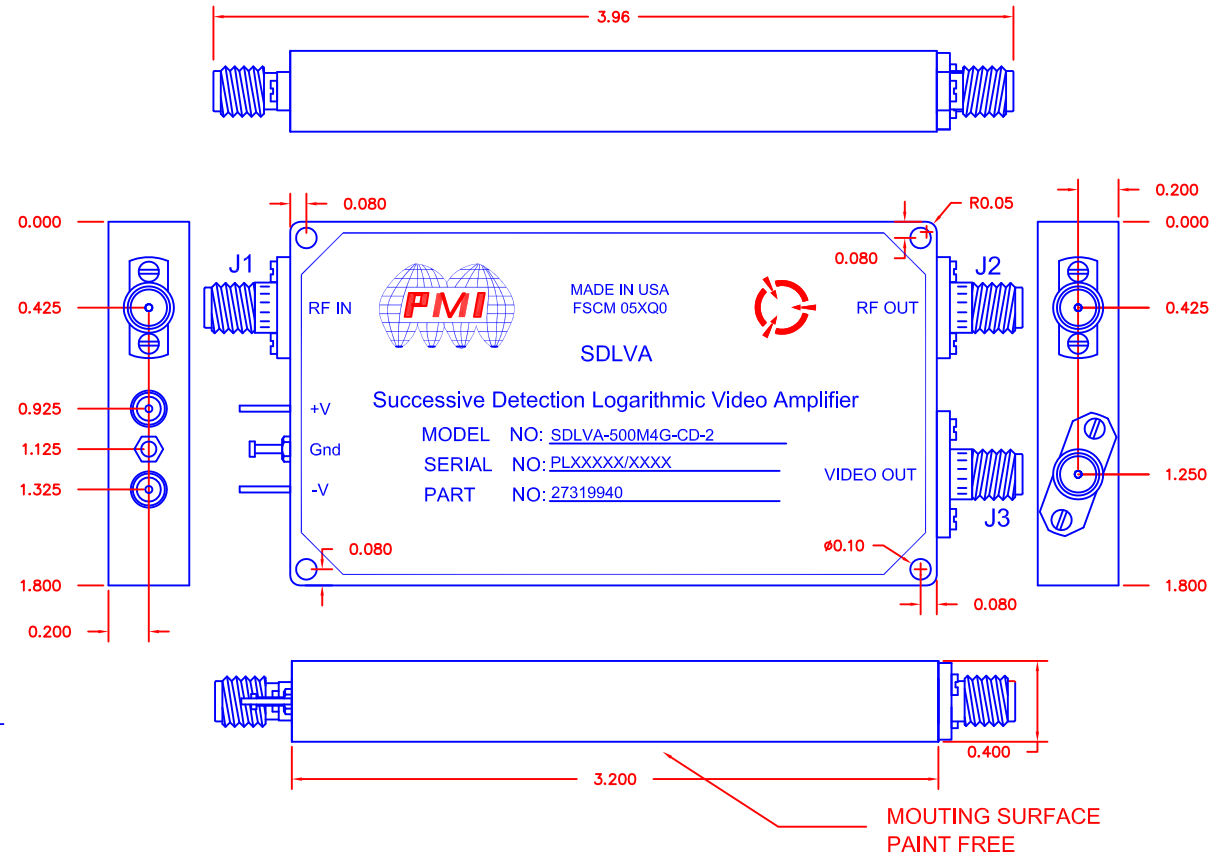
- MOUNTING SURFACE: _____ CHEMICAL CONVERSION COATING / MIL-C-5541, CLASS 1A

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	1/17/13	
	B1	ECN # 14-0002	1/7/14	
	B2	ECN # 14-0159	9/25/14	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>K.M.</i>		1/17/13	PRODUCT FEATURE			
CHECKED <i>J.M.</i>		3-5-13	SDLVA-500M4G-CD-2			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27019942	B2
			SCALE	SHEET		
			N:S	1 OF 1		

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