

DESCRIPTION:

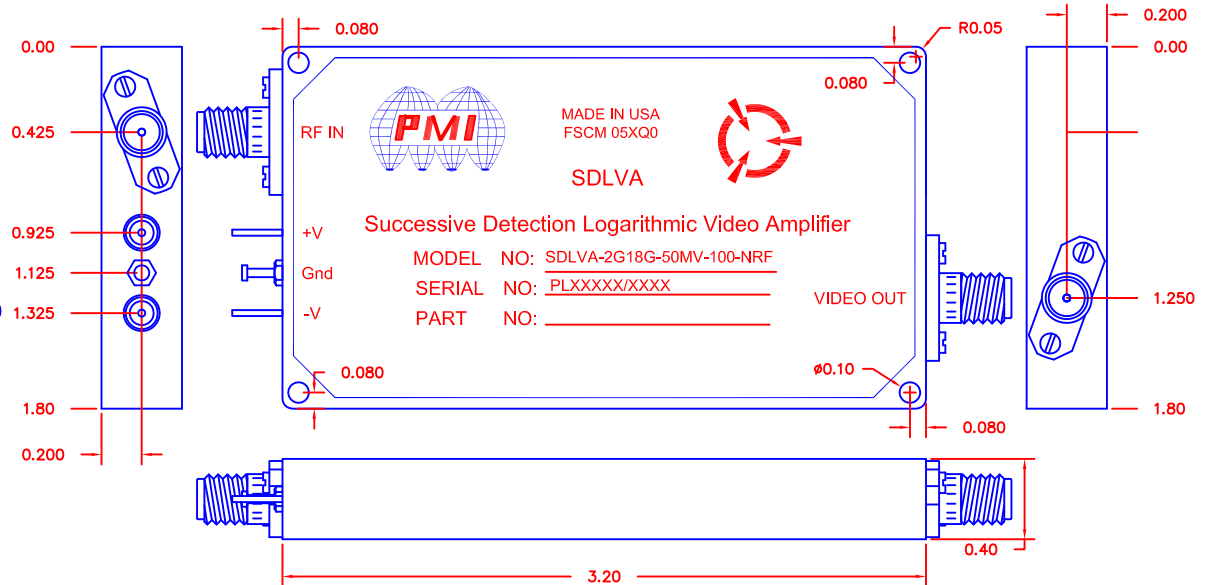
PMI MODEL NUMBER SDLVA-2G18G-50MV-100-NRF IS A SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER (SDLVA) DESIGNED TO OPERATE OVER THE 2GHz TO 18GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- FLATNESS: $\pm 2.0\text{dB}$ MAXIMUM
- TSS: -69 dB MINIMUM
- VSWR: 2.0:1 (RF INPUT)
- POWER INPUT: +17 dBm CW MAXIMUM
- LOG SLOPE: 50 mV/dB ($\pm 1.5\text{mV}$) 100 Ω
- LOG RANGE: -67 to +5 dBm
- LOG LINEARITY: $\pm 1.0\text{dB}$ (25°C)
- LOG LINEARITY: $\pm 1.35\text{dB}$ (-30°C / +65°C)
- LOG REF LINE: FROM 200 mV @ -67 dBm TO 3800 mV @ +5 dBm, WITH A 50 mV/dB LOG SLOPE
- LOG OFFSET: 0mV \pm 100mV
- PULSE RANGE: 30 ns to CW
- RISE TIME: 10 ns MAXIMUM, 6ns TYPICAL
- FALL TIME: 40 ns TYPICAL
- RECOVERY TIME: 60 ns TYPICAL
- POWER SUPPLY: +15V or +12V @ 350 mA NOMINAL
-15V or -12V @ 180 mA NOMINAL
- CONNECTORS: SMA FEMALE CONNECTORS
- SEALING: HARD CONDUCTIVE EPOXY
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -30°C TO +65°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
 - ELECTROMAGNETIC COMPATIBILITY: MODULE DESIGN SHALL BE BASED ON THE REQUIREMENTS STATED IN MIL-STD-461D CLASS A3 AND TO OPERATE IN THE ENVIRONMENT STATED IN THE REQUIREMENTS MIL-STD-462 (ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS, REQUIREMENT FOR).
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>JPH</i>		3/15/22	PRODUCT FEATURE			
CHECKED			SDLVA-2G18G-50MV-100-NRF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	4
SCALE N:S			SHEET 1 OF 1			