

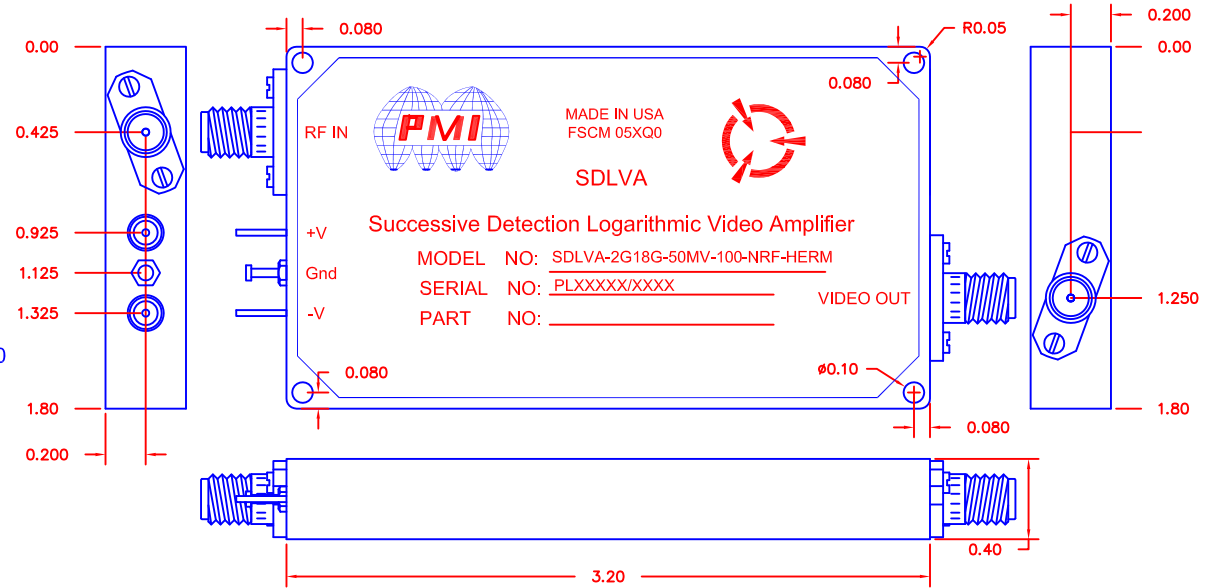
DESCRIPTION:

PMI MODEL NUMBER SDLVA-2G18G-50MV-100-NRF-HERM 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	3/15/22	
	1	SPEC UDAPTES	6/2/22	
	2	SPEC UDAPTES	6/20/22	
	3	SPEC UDAPTES	6/22/22	

SPECIFICATIONS:

- FREQUENCY: _____ 2.0 GHz TO 18.0 GHz
- FLATNESS: _____ ± 2.0dB MAXIMUM
- TSS: _____ -69 dB MINIMUM
- VSWR: _____ 2.0:1 (RF INPUT)
- POWER INPUT: _____ +17 dBm CW MAXIMUM
- LOG SLOPE: _____ 50 mV/dB (±1.5mV) 100 Ω
- LOG RANGE: _____ -67 to +5 dBm
- LOG LINEARITY: _____ ± 1.0dB (25°C)
- LOG LINEARITY: _____ ± 1.35dB (-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 ± 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

PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED



NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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