

DESCRIPTION

PMI MODEL: SDLVA-1G40G-49dB IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES OVER THE 1 TO 40 GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 49 dB AND LOG SLOPE OF 50 mV/dB. FURTHERMORE, IT HAS BEEN DESIGNED USING CUTTING EDGE GaAs TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE MAKING IT AN OPTIMUM SOLUTION FOR HIGH SPEED CHANNELIZED RECEIVER APPLICATIONS.

SPECIFICATIONS

- FREQUENCY: _____ 1 GHz TO 40 GHz
- INPUT VSWR: _____ 2.5:1 MAX
- LOG RANGE: _____ -47 dBm TO +2 dBm
- LOG LINEARITY: _____ ±1.0 dB MAX @ 25 °C
- LOG SLOPE: _____ 50 mV/dB TYP 100 Ω LOAD
- FREQUENCY FLATNESS: _____ ±2.5 dB MAX
- PULSE RANGE: _____ 50 ns TO CW
- RISE TIME: _____ 25 ns MAX
- RECOVERY TIME: _____ 500 ns MAX
- PERFORMANCE VARIATION OVER TEMP: _____ ±2 dB MAX
- TSS: _____ -52 dBm TYP @ 25 °C
- RF CONNECTOR: _____ 2.92mm FEMALE
- VIDEO CONNECTOR: _____ SMA FEMALE
- SUPPLY VOLTAGE: _____ +12 TO +15 V, 170 mA MAX
 _____ -12 TO -15 V, 70 mA MAX
- SIZE: _____ 2.0" X 1.5" X 0.4"
- FINISH: _____ BLUE 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 FREE OF PAINT

ENVIRONMENTAL RATINGS

- TEMPERATURE: _____ -40 °C TO +85 °C (OPERATING)
- 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
- TEMPERATURE CYCLE: _____ MIL-STD-202F, METHOD 107D COND. A

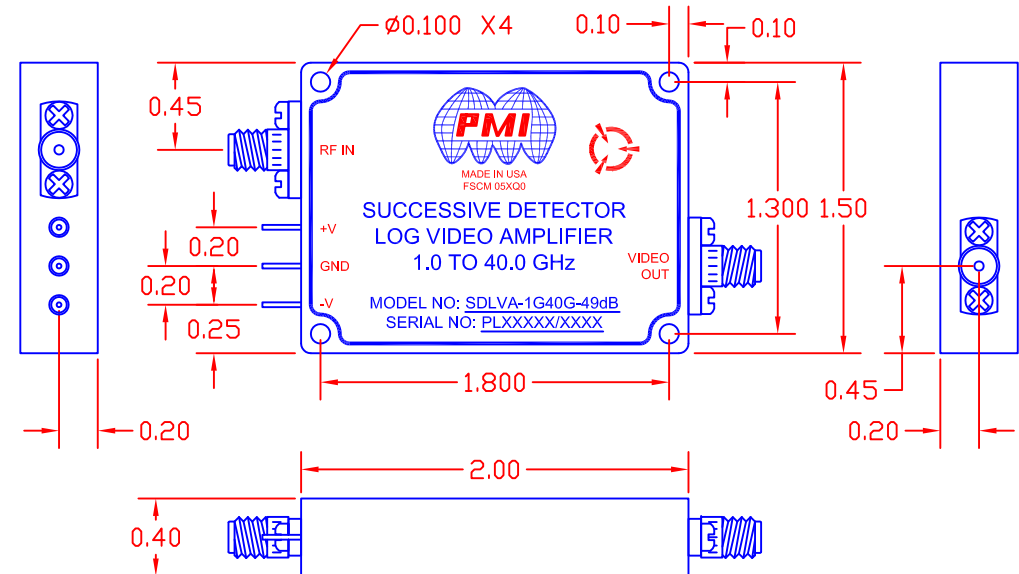
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/30/15	PK

MECHANICAL OUTLINE



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 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>MEB</i>		4/30/15	PRODUCT FEATURE SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER SDLVA-1G40G-49dB			-
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S		SHEET 1 OF 1	