

DESCRIPTION

PMI MODEL NO. SDLVA-25150-75 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) DESIGNED TO OPERATE OVER THE 25 TO 150 MHz FREQUENCY RANGE. THIS UNIT HAS A DYNAMIC RANGE OF 80 dB TYPICAL WITH A NOMINAL VIDEO BANDWIDTH OF 20 MHz. THIS UNIT IS DESIGNED USING MONOLITHIC TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE, MAKING IT AN OPTIMUM SOLUTION FOR HIGH SPEED CHANNELIZED RECEIVER APPLICATIONS. THIS UNIT OFFERS TYPICAL FAST RISE TIME OF 20 ns MAX, RAPID FALL TIME OF 30 ns MAX, AS WELL AS SUPERIOR DELAY TIME OF 10 ns.

SPECIFICATIONS

- FREQUENCY RANGE : ----- 25 TO 150 MHz
- DYNAMIC RANGE: ----- 80 dB TYP
- VSWR IN/OUT: ----- 1.5:1 MAX
- LOGGING RANGE: ----- -80 TO 0 dBm TYP
- LIMITED IF OUTPUT: ----- 0 dBm TYP
- MAXIMUM RF INPUT POWER: ----- +10 dBm MAX
- LOG VIDEO OUTPUT
- OUTPUT COOLING: ----- DC
- MAXIMUM OUTPUT VOLTAGE: ----- 2.7 V
- RISE TIME: ----- 20 ns MAX
- FALL TIME: ----- 30 ns MAX
- PULSE WIDTH: ----- <100 ns MIN
- SLOPE: ----- 25 mV/dB NOMINAL
- LOG SLOPE VARIATION WITH TEMP: -- ±1 mV MAX
- PROPAGATION DELAY: ----- 10 ns TYP
- VIDEO LOAD: ----- 100 OHMS TYP
- DC POWER SUPPLY: ----- +15 V @ 100 mA
-15 V @ 190 mA
- SIZE: ----- 3.75" X 1.50" X 0.50"

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +100 °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
- TEMPERATURE CYCLE: ----- MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

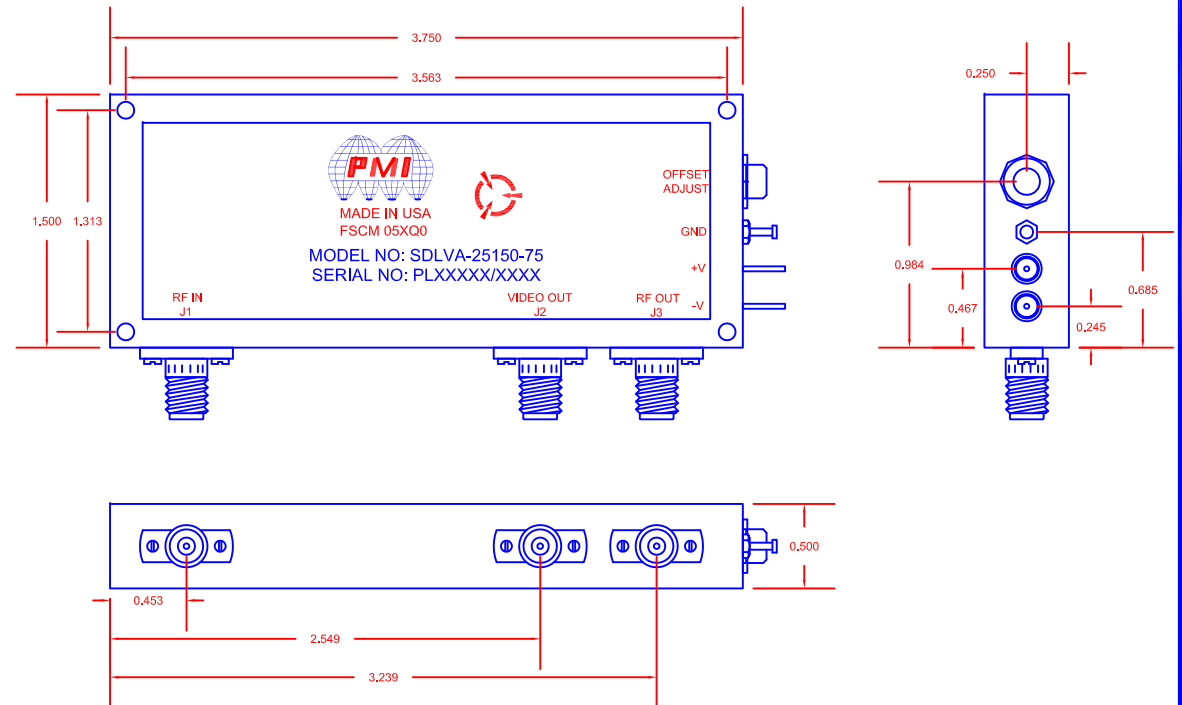
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2/21/2020	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>JDJ</i>		9/16/04	PRODUCT FEATURE SDLVA-25150-75			
REDRAWN <i>EW</i>		2/21/20	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1