

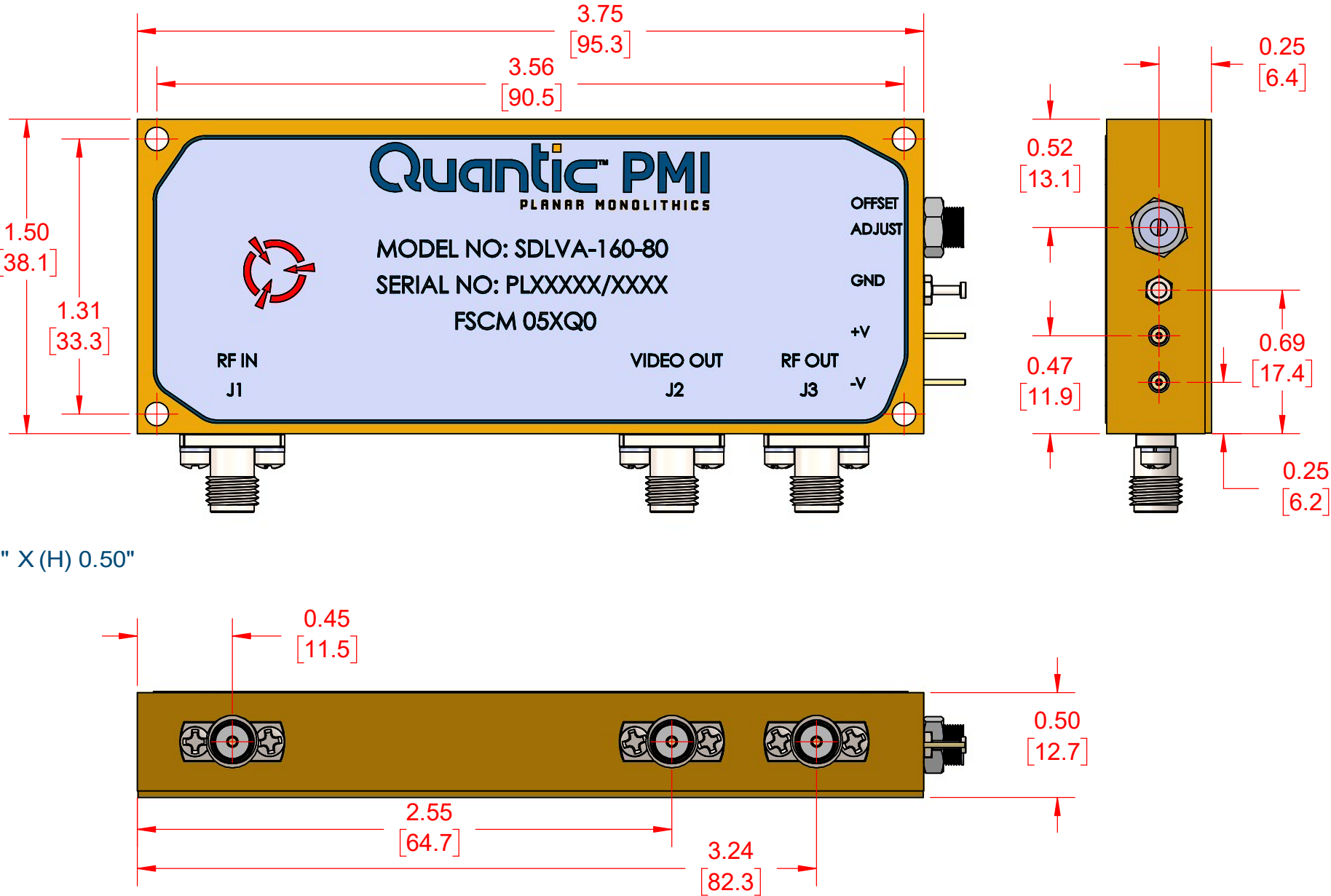
DESCRIPTION:

PMI MODEL NUMBER SDLVA-160-80 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 120 TO 200 MHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 80 dB, A LOG SLOPE OF 25 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 12 MHz. 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.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/5/2023	
	B1	ECN # 23-0180	9/27/23	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 120 TO 200 MHz
- DYNAMIC RANGE:..... -80 TO 0 dBm
- LOG LINEARITY:..... ± 1.0 dB
- VSWR INPUT:..... 2.0:1 MAX
- VSWR OUTPUT:..... 2.0:1 MAX
- LIMITED IF OUTPUT:..... +0 dBm ±2.0 dB
- LOG VIDEO OUTPUT:
  - OUTPUT COUPLING:..... DC
  - RISE TIME:..... 30 ns
  - FALL TIME:..... 60 ns
  - DC OFFSET:..... ±20 mV
  - LOG SLOPE:..... 25 mV/dB ± 3%
  - VIDEO LOAD:..... 93Ω ±10%
- DC POWER SUPPLY:
  - +V:..... +12V @ 200 mA
  - V:..... -12V @ 190 mA
- SIZE:..... (L) 3.75" X (W) 1.50" X (H) 0.50"
- FINISH:..... GOLD PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

			<div>Quantic PMI</div> <div>PLANAR MONOLITHICS</div> <div>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA</div> <div>TEL: (301) 662-5019, FAX: (301) 662-1731</div> <div>WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM</div> <div>ISO 9001 CERTIFIED</div>					
						APPROVALS		DATE
						DRAWN S AZHAR		1/5/2023
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±                .XX ± 0.02        ± .XXX ± 0.01			TITLE OUTLINE SDLVA-160-80					
			ISSUED					
			SIZE B	FSCM NO. 05XQ0	DWG NO. 27045440	REV. B1		
			SCALE 1:1		SHEET 1 OF 1			