

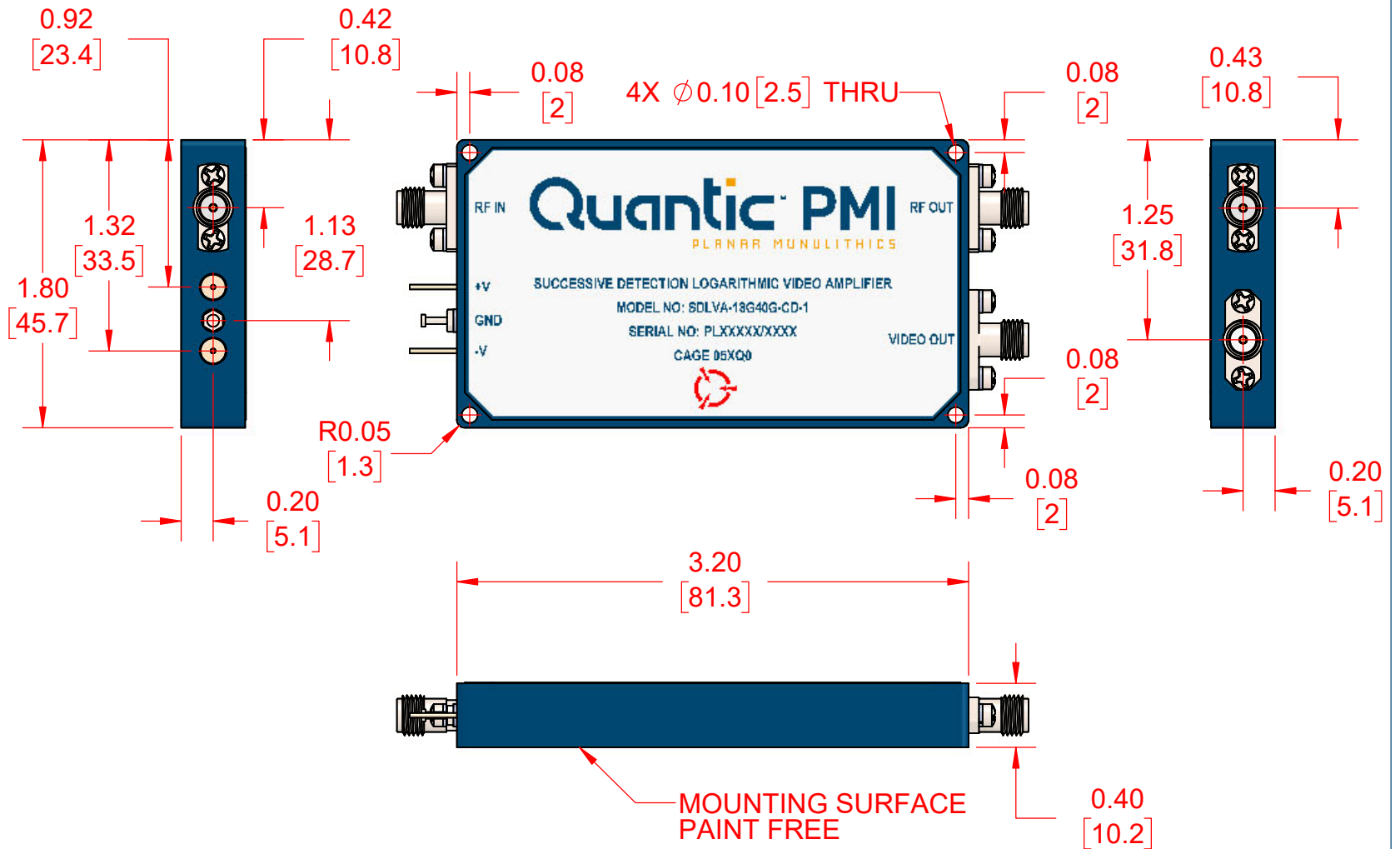
DESCRIPTION:

PMI MODEL NUMBER SDLVA-18G40G-CD-1 IS AN SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 18 GHz TO 40 GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/16/2024	
	B1	ECN # 24-0299	10/18/2024	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 18 TO 40 GHz
- RF GAIN (SMALL SIGNAL):..... 50 dB TYP
- VIDEO FLATNESS OVER FREQUENCY:..... ±2.5 dB MAX
- TSS:..... -70 dBm TYP, -68 dBm MAX
- VSWR:..... 2.5:1 MAX
- PSAT:..... +12 dBm TYP
- POWER INPUT:..... +17 dBm CW MAX
- LOG SLOPE:..... 25 mV/dB TYP (50Ω LOAD)
- LOG RANGE:..... -70 TO +5 dBm
- LOG LINEARITY:..... ±2.5 dB (-60 TO 0 dBm, -40°C TO +85°C)
- DC OFFSET:..... 150 mV ±50 mV
- PULSE RANGE:..... 30 ns TO CW
- RISE TIME:..... 5 ns TYP, 10 ns MAX
- RECOVERY TIME:..... 40 ns TYP, 60 ns MAX @ +25°C, 100 ns MAX OVER TEMP
- POWER SUPPLY:..... +15V OR +12V @ 500 mA MAX
-15V OR -12V @ 180 mA MAX
- CONNECTORS:..... RF: 2.92 mm FEMALE
VIDEO: SMA FEMALE
- FINISH:..... PAINTED BLUE,
MOUNTING SURFACE GOLD PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°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

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		<table border="1"> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> <tr> <td>DRAWN J ESCANO REDRAWN</td> <td>4/16/2024</td> </tr> <tr> <td>ISSUED</td> <td></td> </tr> </table>		APPROVALS	DATE	DRAWN J ESCANO REDRAWN	4/16/2024	ISSUED		<p>Quantic PMI PLANNED MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED</p>	
APPROVALS	DATE										
DRAWN J ESCANO REDRAWN	4/16/2024										
ISSUED											
TITLE OUTLINE SDLVA-18G40G-CD-1		SIZE B	FSCM NO. 05XQ0	DWG NO. 27018630	REV. B1						
SCALE 1:1		SHEET 1 OF 1									