

DESCRIPTION:

THE SDLVA-2020 SERIES OF TRULY DC-COUPLED SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVA) ARE AVAILABLE IN EXTENDED 70/75 dB DYNAMIC RANGE OVER THE RANGE OF 0.5-18 GHz BANDWIDTH, WITH TRUE DC COUPLING. UNITS EMPLOY PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. THE DLVA'S ARE OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY. THE SIZE IS 3.00" X 3.50" X 0.50".

FEATURES

- TRULY DC COUPLED
- WIDE BANDWIDTHS
- FAST RISE TIMES
- SHORT RECOVERY TIMES
- SUPERIOR ACCURACY
- EXTENDED DYNAMIC RANGE CAPABILITY
- MINIATURE SIZE
- 7.2 OZ WEIGHT

SPECIFICATIONS:

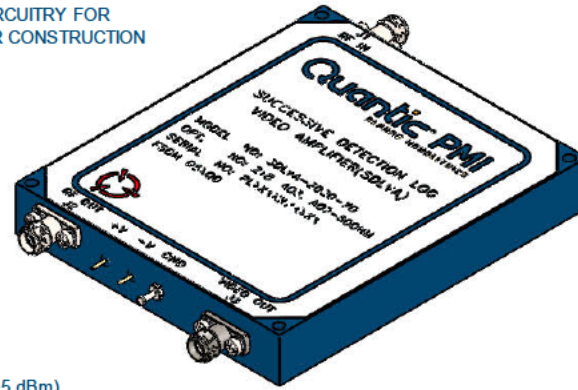
- FREQUENCY RANGE:..... 5-12 GHz
- FREQUENCY FLATNESS:..... ±2.0 dB
- TSS:..... -65 dBm MINIMUM (8-12 GHz)
- VSWR:..... 3.0:1 @ -20 dBm
- LOGGING RANGE:..... -65 dBm TO +5 dBm
- LOG LINEARITY:..... ±1.75 dB MAXIMUM (-65 dBm TO +5 dBm)
- LOG SLOPE:..... 20 mV/dB (±10% TOLERANCE)
- LOG TEMPERATURE STABILITY:..... ±1.75 dB (0°C TO 60°C)
- RISE TIME (10% TO 90% POINTS):..... 20 ns MAXIMUM
- RECOVERY TIME:..... 200 ns MAXIMUM (-65 dBm TO +5 dBm)
- OUTPUT POWER..... +10 dBm ±2.5 dB TYPICAL
- OUTPUT VIDEO LOAD:..... 50 OHMS ±10% OR AS DESIRED
- DC POWER (NO LOAD):
 - +V..... 15 V @ 600 mA MAXIMUM
 - V..... 15 V @ 200 mA MAXIMUM
- SIZE:..... 3.00" X 3.50" X 0.50"
- FINISH:..... PAINTED BLUE

OPTIONS:

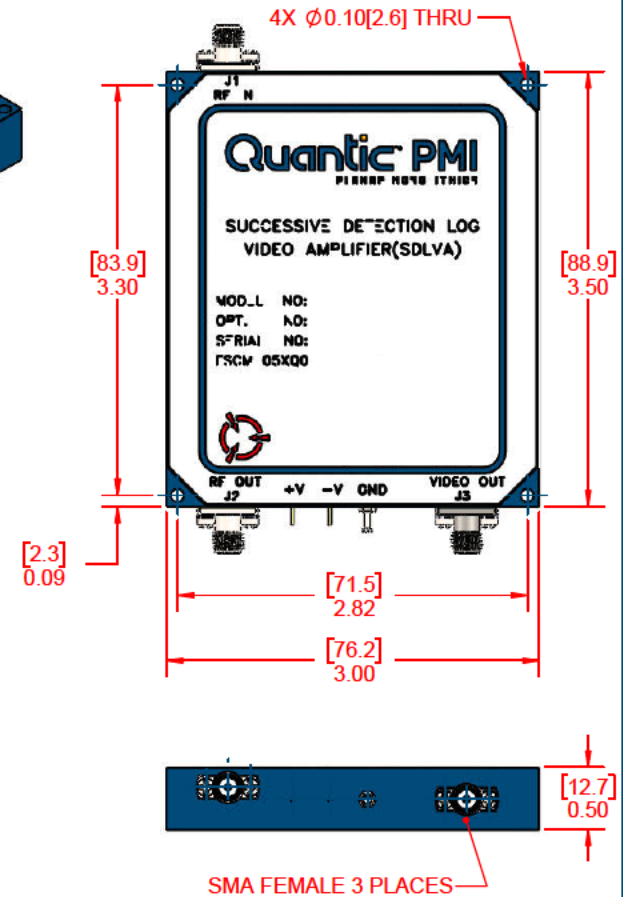
- 0518..... FREQUENCY 0.5 TO 18 GHz RANGE
- 218..... FREQUENCY 2 TO 18 GHz RANGE
- A03..... FASTER RISE/RECOVERY TIMES
- A07..... OTHER VIDEO LOAD

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -54°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



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/12/2020	



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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN AG REDRAWN ISSUED		DATE		TITLE OUTLINE	
		1/12/20		SDLVA-2020-70-OPT512-A03-A07-50OHM	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES .XXX ± 0.005 ± .001 ± 0.01		SIZE	FSCM NO.	DWG NO.	REV.
		B	05XQD	PRELIMINARY	-
		SCALE 1:1			SHEET 1 OF 1

Quantic PMI

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