DESCRIPTION

THE SDLVA-2020 SERIES OF TRULY DC-COUPLED SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVA'S) ARE AVAILABLE IN EXTENDED 70/75 dB DYNAMIC RANGE OVER THE RANGE OF 1 TO 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/MMC TECHNOLOGY. THE SIZE IS 3.0" X 3.5" X 0.5".

REVISIONS					
ZONE	REV.	DESCRIPTION	DATE	APPROVED	
	_	PRELIMINARY	3/20/15	<i>ያ</i> ዎ	
	1	ECN # 22-0092	8/1/22		

SPECIFICATIONS

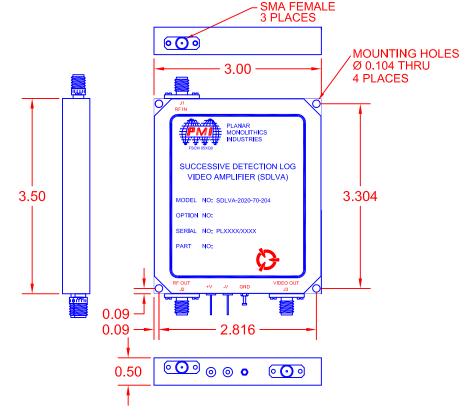
SIZF:-

FINISH: —

<u></u>	FLOII ICATIONS	
•	FREQUENCY RANGE:———	- 2.0 TO 4.0 GHz
•	FREQUENCY FLATNESS:	- ±2.5 dB MAXIMUM
•	LIMITED RF OUTPUT:	- 0 dBm MINIMUM
•	TSS:	65 dBm MINIMUM
•	OUTPUT STABILITY:	- ±2.5 dB MAXIMUM (0°C TO 60°C)
•	VSWR:	- 2.0:1 (@ -20 dBm)
•	LOGGING RANGE:	65 dBm TO +10 dBm
•	LOG LINEARITY:	- ±1.75 dB MAXIMUM (-65 dBm TO +10 dBm)
•	LOG SLOPE:	- 10 mV/dB (±10% TOLERANCE)
•	LOG TEMPERATURE STABILITY:-	- ±1.75 dB (0°C TO 60°C)
•	RISE TIME:	- 30 ns MAXIMUM
•	RECOVERY TIME: ————	- 250 ns MAXIMUM, 150 ns TYPICAL
•	OUTPUT VIDEO LOAD:	- 50 Ω ±10%
•	OUTPUT VOLTAGE:	- 1.00 VDC MAXIMUM
•	POWER SUPPLY:	- +15 V @ 650 mA MAXIMUM
		-15 V @ 175 mA MAXIMUM

3.50" (L) x 3.00" (W) x 0.50" (H)

- PAINTED BLUE



ENVIRONMENTAL RATINGS

TEMPERATURE: --55°C TO +85°C (OPERATING)
 -65°C TO +100°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

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

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APPROVALS

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DRAWN

PRODUCT FEATURE SDLVA-2020-70-204

2 - 4 GHz, 70/75 dB, TRULY DC-COUPLED SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER

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

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