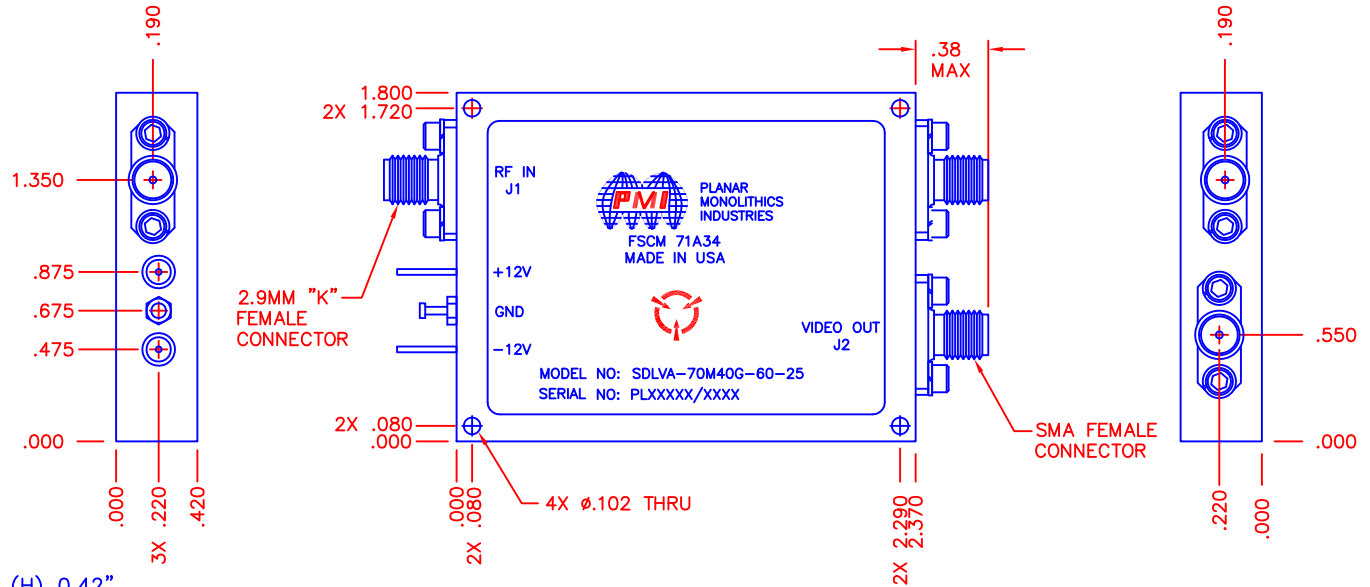


DESCRIPTION

THE MODEL SDLVA-70M40G-60-25 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 70MHZ TO 40 GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 60 dB, A LOG SLOPE OF 25 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 23 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.

SPECIFICATIONS

- FREQUENCY RANGE: _____ 70 MHz to 40 GHz
- TSS _____ -60 dBm @ 25° C
- INPUT POWER HANDLING _____ 10 dBm MAX
- VIDEO LOG RANGE _____ -55 dBm to +5 dBm
- VIDEO LOG LINEARITY _____ ± 2.0 dB @ 25° C
± 3.0 OVER TEMP
- VIDEO LOG SLOPE _____ 25 mV / dB nom
- VIDEO FREQ FLATNESS _____ ± 2.5 dB MAX @ 25° C
- PULSE WIDTH RANGE _____ 50 nS TO CW
- VIDEO RISE TIME _____ 15 nS (12 nS typ)
- RECOVERY TIME _____ 100 nS (80 nS typ)
- DELAY TIME _____ 15 nS (5 nS typ)
7 nS over temp typ
- RF GAIN _____ 50dB NOMINAL
- PSAT _____ +7dBm NOMINAL
- INPUT/OUTPUT VSWR _____ 2.5:1
- DC POWER SUPPLY:
+V: _____ +12V @ 500 mA
-V: _____ -12V @ 200 mA
- SIZE: _____ (L) 2.37" X (W) 1.80" X (H) 0.42"
- FINISH: _____ NICKEL PLATE PER SAE AMS 2404



ENVIRONMENTAL RATINGS

- **TEMPERATURE:** _____ -54°C TO +85°C (OPERATING)
-62°C TO +86°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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 4 oz. MAX

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	1-19-15	

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE			
DRAWN JM		1-19-15	PRODUCT FEATURE SDLVA-70M40G-60-25			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	71A34	270XXXXX	1
			SCALE	N:S		SHEET 1 OF 1