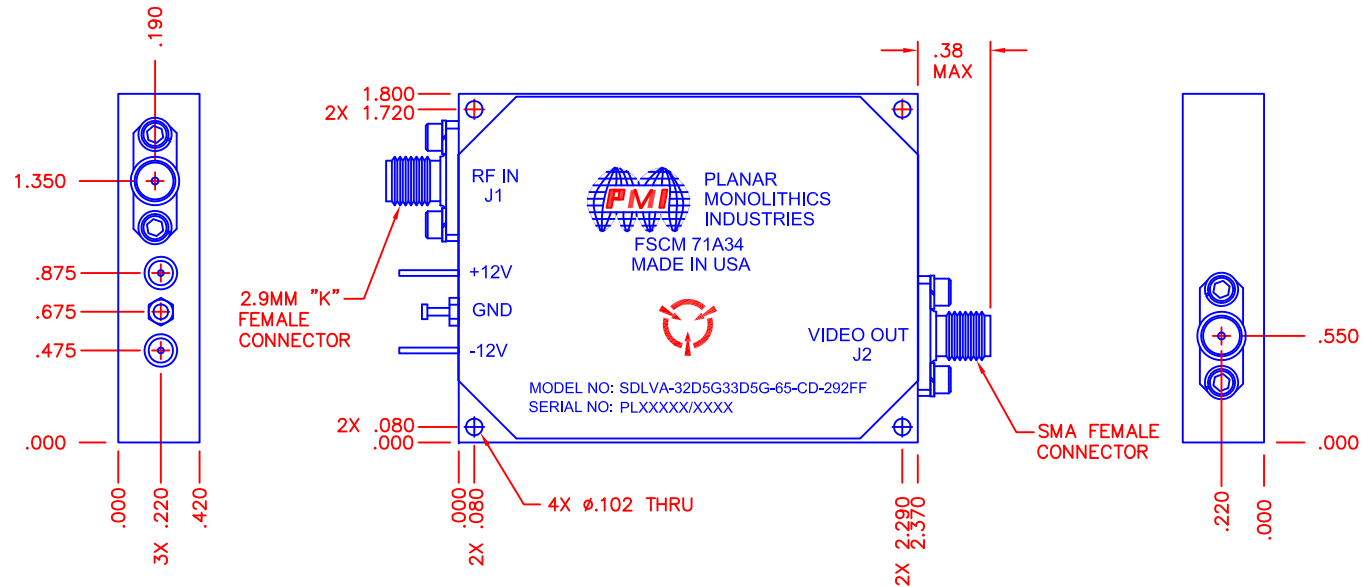


DESCRIPTION

THE MODEL SDLVA-32D5G33D5G-65-CD-292FF IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 32.5 TO 33.5 GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 65 dB, A LOG SLOPE OF 25 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 32 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: 32.5 GHz to 33.5 GHz
- TSS -65 dBm @ 25° C
- INPUT POWER HANDLING 10 dBm MAX
- VIDEO LOG RANGE -63 dBm to +2 dBm
- VIDEO LOG LINEARITY ± 2.0 dB @ 25° C
± 3.0 OVER TEMP
- VIDEO LOG SLOPE 25 mV / dB nom
- VIDEO LOG INTERCEPTS:
VIDEO OUTPUT AT 2 dBm 1940 mV MAX
1476 mV MIN
VIDEO OUTPUT AT -63 dBm 280 mV MAX
65 mV MIN
- VIDEO FREQ FLATNESS ± 2.5 dB MAX @ 25° C
- PULSE WIDTH RANGE 30 ns TO CW
- VIDEO RISE TIME 11 ns (8 ns typ)
- RECOVERY TIME 60 ns (40 ns typ)
- DELAY TIME 15 ns (5 ns typ)
7 ns over temp typ
- VIDEO OUTPUT IMPEDANCE 50Ω
- UNPUT VSWR (50 Ω) 2.5:1
- DC POWER SUPPLY:
+V: +12V @ 400 mA
-V: -12V @ 200 mA
- *NOTE: DO NOT SUPPLY +V WITHOUT -V SUPPLIED AS WELL AS THIS MAY DESTROY THE UNIT
- 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
	-	PRELIMINARY	12/5/18	

PLANAR MONOLITHICS INDUSTRIES, INC.
4921 ROBERT J MATHEWS PKWY
EL DORADO HILLS, CALIFORNIA 95762
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN JOHNMM		12/5/18	PRODUCT FEATURE SDLVA-32D5G33D5G-65-CD-292FF			
CHECKED			32.5 TO 33.5 GHz, SUCCESSIVE DETECTOR LOG VIDEO AMPLIFIER			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	71A34	PRELIMINARY	-
			SCALE	N:S		SHEET
					1 OF 1	