

DESCRIPTION

THE MODEL SDLVA-0R91R3-70-CD-1 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 900 TO 1300 MHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 70 dB, A LOG SLOPE OF 50 mV / dB, AND A VIDEO BANDWIDTH OF 14 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:900MHz TO 1300MHz
- DYNAMIC RANGE:-80 TO -5 dBm
- LOG LINEARITY:± 1.0 dB Max
- LOG ACCURACY:± 1.50 dB Max @25°C
- VSWR INPUT:2.0:1 Max
- TANGENTIAL SENSITIVITY:-82 dBm Typical
- FREQUENCY FLATNESS± 1.25 dB Max @25°C
- MAXIMUM RF INPUT POWER:+10 dBm CW
- LOG VIDEO OUTPUT:
 - OUTPUT COUPLING:DC
 - RISE TIME:25 ns Max
 - FALL TIME:200 ns Max
 - RECOVERY TIME300 ns Max
 - SETTLING TIME:60 ns Max
 - LOG SLOPE:50 mV/dB NOMINAL
- VIDEO LOAD:50 OHMS
- DC POWER SUPPLY:
 - +V:+12V TO +15V
 - V:-12V TO -15V
- SIZE:(L) 3.75" X (W) 1.50" X (H) 0.50"
- FINISH:GOLD PLATED

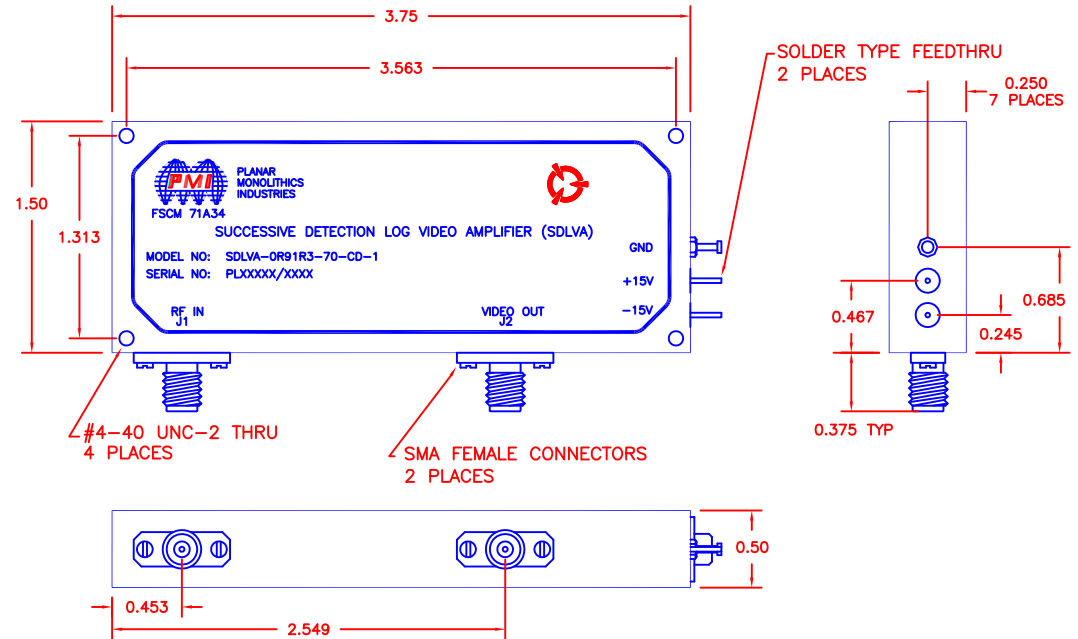
ENVIRONMENTAL RATINGS

- **TEMPERATURE:**-55°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

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: 2.75 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	4	PRELIMINARY	1-17-17	



PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT J. MATHEWS PKWY
EL DORADO HILLS CA 95762
TEL: 916-542-1401 FAX: 916-265-2597
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com



ISO 9001:2008 CERTIFIED

APPROVALS		DATE	TITLE			
DRAWN <i>JM</i>		1-17-17	PRODUCT FEATURE			
CHECKED			SDLVA-0R91R3-70-CD-1			
ISSUED			900 TO 1300 MHz, SUCCESSIVE DETECTOR LOG VIDEO AMPLIFIER			
SIZE	FSCM NO.	DWG NO.	REV.			
A	71A34	PRELIMINARY	4			
SCALE N:S			SHEET 1 OF 1			