

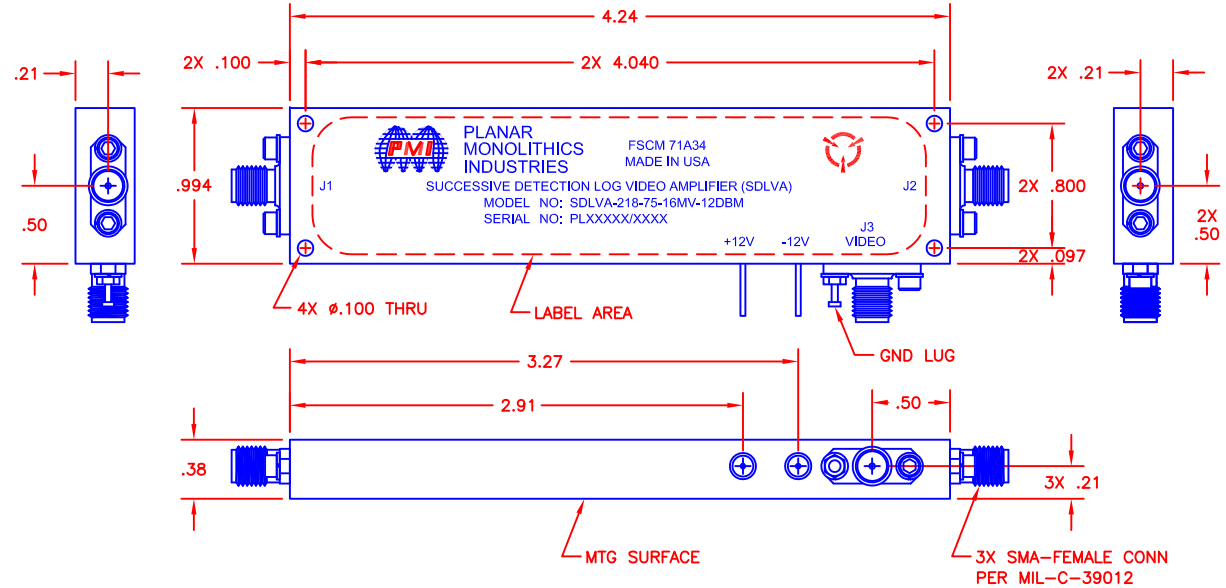
DESCRIPTION

THE MODEL SDLVA-218-75-16MV-12 DBM IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 2 TO 18 GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 75 dB, A LOG SLOPE OF -16 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 35 MHz. FURTHERMORE, IT HAS BEEN DESIGNED USING CUTTING EDGE GaAs TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	05/21/20	EB

SPECIFICATIONS

- FREQUENCY RANGE: 2 GHz to 18 GHz
- TSS: -64 dBm MAX
- INPUT POWER HANDLING: +20 dBm
- VIDEO LOG RANGE: -60 dBm to +15 dBm
- VIDEO LOG LINEARITY: ±2.2 dB(typ) ±2.5 dB(max)
- VIDEO LOG SLOPE: -16.0 ±2.0 mV/dB NOM
- VIDEO FREQ FLATNESS: ±4 dB MAX
- PULSE WIDTH RANGE: 25 ns TO CW
- VIDEO RISE TIME: 10 ns MAX
- VIDEO FALL TIME: 20 ns MAX
- RECOVERY TIME: 50 ns MAX
- DELAY: <2 ns
- VIDEO OUTPUT DC OFFSET: -100mV NOMINAL
- VIDEO OUTPUT IMPEDANCE LOAD: 50 Ω
- RF IN/OUT IMPEDANCE: 50 Ω
- INPUT VSWR (50 Ω): 2.0:1 MAX
- DC POWER SUPPLY:
 - +V: +12V @ 850 mA MAX
 - V: -12V @ 250 mA MAX
- SIZE: 4.24 X .994X .38
- WEIGHT: 3 OZ MAX
- FINISH: NICKEL PLATE PER MIL-C-26074



ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +85 °C (OPERATING)
-62 °C TO +86 °C (STORAGE)
- HUMIDITY: 95% (CONTINUOUS AND INTERMITTENT)
- SHOCK: MIL-S-901 GRADE A CLASS 1 TYPE B
- VIBRATION: MIL-STD-167-1 TYPE 1 (4-50Hz)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
.XX = ±.020
.XXX = ±.005

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT J. MATHEWS PKWY SUITE 1

EL DORADO HILLS, CA 95762 USA

TEL: (916)-542-1401, FAX: (916) 265-2597

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>EB</i>		05-21-20	PRODUCT FEATURE SDLVA-218-75-16MV-12DBM		
CHECKED			SIZE A	FSCM NO. 71A34	DWG NO. 27038991
ISSUED			SCALE N:S		REV. -
				SHEET	1 OF 1