

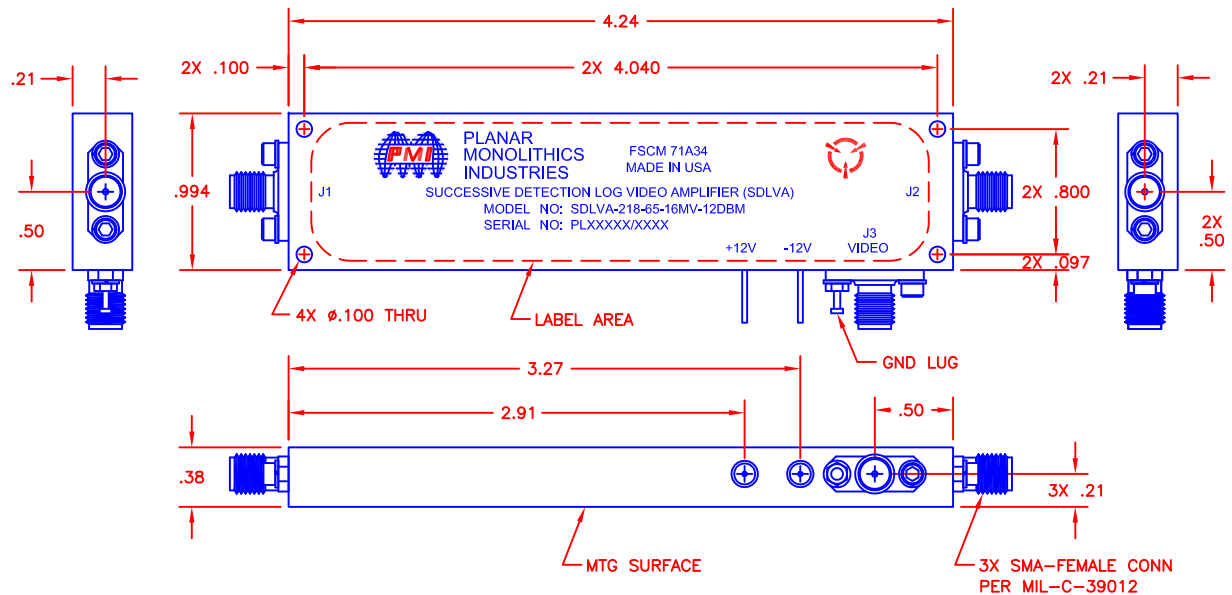
## DESCRIPTION

THE MODEL SDLVA-218-65-16MV-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 65 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
	1	ORIGINAL RELEASE	10/27/15	JM
	A1	ECN # 17-0125	6/7/17	JM
	B1	SPEC CHANGES	2/8/18	JM

## SPECIFICATIONS

- FREQUENCY RANGE: 2 GHz to 18 GHz
- TSS: -64 dBm MAX
- INPUT POWER HANDLING: +20 dBm
- VIDEO LOG RANGE: -55 dBm to +10 dBm
- VIDEO LOG LINEARITY: +2.2 dB
- 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 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

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APPROVALS		DATE	TITLE			
DRAWN JM		10/27/15	PRODUCT FEATURE SDLVA-218-65-16MV-12DBM			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	71A34	27017671	B1
			SCALE	N:S	SHEET	1 OF 1