

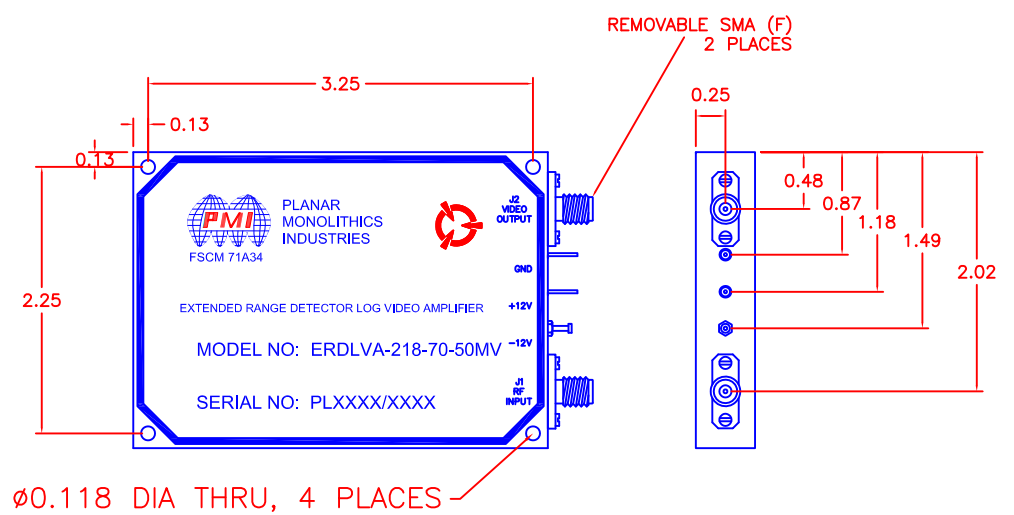
**DESCRIPTION:**

PMI MODEL NO. EDLVA-218-70-50MV IS A CW IMMUNE SDLVA (EXTENDED RANGE DETECTOR LOG VIDEO AMPLIFIER). THIS UNIT OPERATES FROM 2.0 TO 18.0 GHz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7-10-17	

**SPECIFICATIONS:**

- FREQUENCY: . . . . . 2.0 GHz TO 18.0 GHz
- FREQUENCY FLATNESS: . . . . . ±2.0dB Typ
- SIGNAL CAPABILITY: . . . . . PULSE (50nS – 300µS), PULSE ON CW
- TSS . . . . . -70dBm
- LOG DYNAMIC RANGE: . . . . . -65dBm TO 5dBm
- LOG SLOPE . . . . . 50mV/dB NOMINAL
- LOG LINEARITY: . . . . . ±1.0dB MAX
- VIDEO OUTPUT RANGE: . . . . . -65dBm: 150~400mV, 250mV (CENTER)
- DC OFFSET . . . . . ±150mV TYP
- NOISE LEVEL . . . . . 75mV, RMS MAX, WITHOUT RF
- OUTPUT RISE TIME . . . . . 25nS MAX
- SETTLING TIME . . . . . 50nS MAX, 10% OUTPUT TO ±0.5dB OF FINAL VALUE
- RECOVERY TIME . . . . . 350nS MAX, MEASURED FROM EDGE OF 10 MICROSECOND PULSE TO LEADING EDGE OF NEXT 10 MICROSECOND PULSE TO WITHIN 1dB VOLTAGE LEVEL
- INPUT VSWR: . . . . . 2.0:1 MAX
- MAX INPUT LEVEL . . . . . +20dBm CW
- VIDEO OUTPUT LOAD . . . . . 75 OHMS
- POWER SUPPLY . . . . . +12VDC @ 400mA MAX  
-12VDC @ 150mA MAX
- OPERATING TEMPERATURE: . . . . . -20°C TO +85°C
- SIZE . . . . . (L) 3.5in X (W) 2.5in X (H) 0.5in  
(L) 88.9mm X (W) 63.5mm X (H) 12.7mm
- FINISH . . . . . NICKEL PLATED
- COOLING . . . . . CONDUCTION COOLING AT MOUNTING SURFACE



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE . . . . . -20°C TO +85°C (OPERATING)  
-65°C TO +125°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 107 COND. A
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

APPROVALS		DATE	TITLE			
DRAWN <i>JM</i>		7-10-17	PRODUCT FEATURE ERDLVA-218-70-50MV			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	71A34	PRELIMINARY	-
			SCALE	N:S		SHEET 1 OF 1