DESCRIPTION

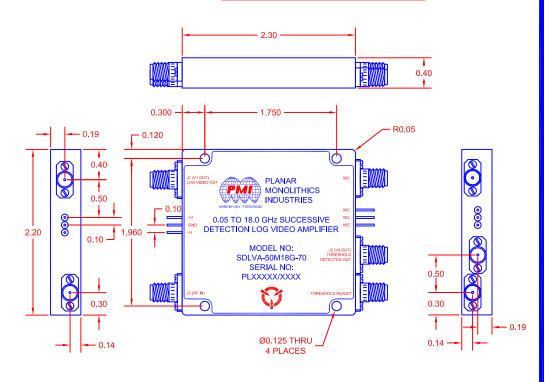
PMI MODEL: SDLVA-50M18G-70 IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER OPERATING IN THE 0.05 GHz TO 18 GHz FREQUENCY BAND. IT FEATURES A BUILT IN VOLTAGE VARIABLE THRESHOLD DETECTOR CIRCUIT THAT IS SETUP TO MATCH THE VIDEO OUTPUT VOLTAGE TO WITHIN 5%. IN ADDITION, THIS MODEL HAS A TSS OF -70 dBm AND A DYNAMIC RANGE OF 70 dB, ALL IN A PACKAGE MEASURING ONLY 2.3" X 2.2" X 0.4"

	ZONE	REV.	DESCRIPTION	DATE	APPROVED
		1	ORIGINAL RELEASE	06/22/16	
		A1	ECN # 17-0269	12/22/17	
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MECHANICAL OUTLINE

SPECIFICATIONS

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• FREQUENCY:	0.05 GHz to 18.0 GHz
• FREQUENCY FLATNESS:	±2.0 dB MAX
• TSS:	-70 dBm TYP
• VSWR:	2.0:1 MAX
• VIDEO COMPARATOR OUTPUT (V0):	5 V INTO 1 M Ω , 2.5 V INTO 50 Ω (TYP)
VIDEO COMPARATOR THRESHOLD LEVEL:	ADJUSTABLE -60 dBm to 0 dBm (OPERATING RANGE) THRESHOLD LEVEL = V1 ±5% and ±25 mV (HYSTERESIS)
• LOG RANGE:	-70 dBm to 0 dBm MIN
• LOG SLOPE:	25 mV/dB (±5%) @ 50 Ω LOAD
• LOG LINEARITY:	±1.75 dB (-65 TO 0 dBm) MAX
• PULSE RANGE:	
• RISE TIME:	
• RECOVERY TIME:	
POWER SUPPLY:	+12 to +15 VDC @ 400 mA -12 to -15 VDC @ 200 mA
• CONNECTORS:	SMA FEMALE
• SIZE:	
• FINISH:	GOLD PLATED



ENVIRONMENTAL RATINGS

-54 °C TO +100 °C (STORAGE) HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B SHOCK: ----- MIL-STD-202, METHOD 213B COND. B VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B ALTITUDE: ---------- MIL-STD-202, METHOD 105C COND. B TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

ALL DIMENSIONS ARE IN INCHES **TOLERANCES:** ±0.020

WEB: www.pmj-rf.com, EMAIL: sales@pmj-rf.com ISO 9001 CERTIFIED PRODUCT FEATURE APPROVALS DATE SDLVA-50M18G-70 0.05 - 18 GHz Successive Detection Log Video Amplifier M. Berry 06/22/16 SIZE FSCM NO. 27029811 **A**1 05XQ0 1 OF 2 SCALE N:S SHEET

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

PLANAR MONOLITHICS INDUSTRIES, INC.

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS						
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