REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		Preliminary		

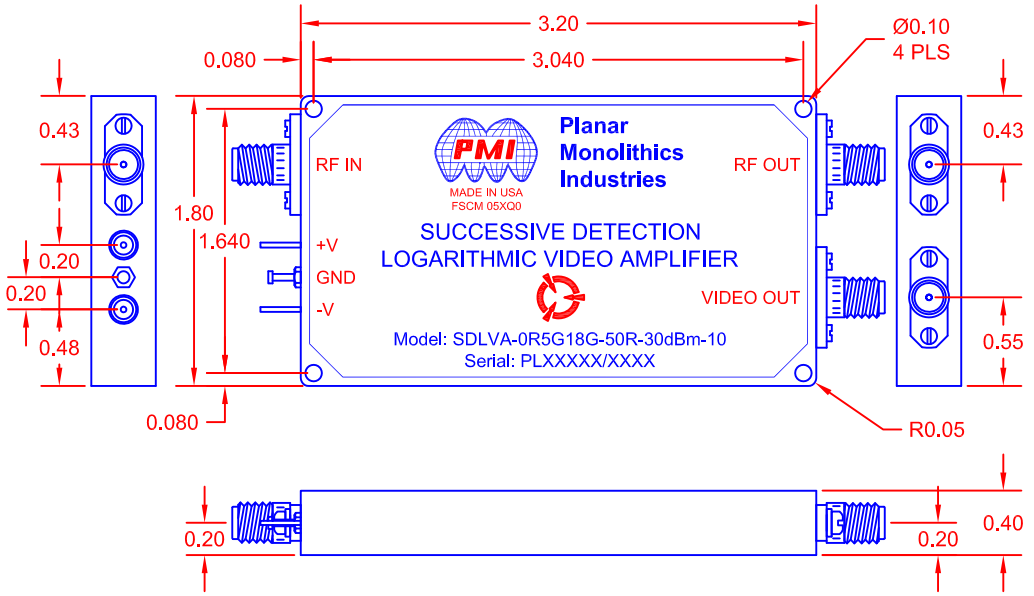
DESCRIPTION

PMI MODEL NUMBER SDLVA-0R5G18G-50R-30dBm-10 A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 0.5GHz TO 18GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

SPECIFICATIONS

- FREQUENCY: ---------- 0.5 GHz to 18.0 GHz
- TSS: ---------- -71 dBm MIN
- VSWR: ---------- 2.5:1 MAX
- VIDEO OUTPUT RANGE: ---------- 0 VDC TO 2.2 VDC INTO A 50 Ω LOAD
- MAX VIDEO OUTPUT: ---------- 2.4 V
- INPUT POWER: ---------- +30 dBm CW MAX
- LOG RANGE: ---------- -70 dBm to 0 dBm
- LOG SLOPE: ---------- 10 mV/dB (±10%) @ 50 Ω LOAD
- LOG SLOPE INTERCEPT POINT: ---------- AT -70 dBm RF INPUT
VIDEO OUT = 350 mV (NOM) @ +25° C
- PULSE RANGE: ---------- 50 ns to CW
- PULSE RISE TIME (10% to 90%): ---------- 20 ns MAX
- PULSE OVERSHOOT: ---------- 1 dB MAX WITH 50 Ω LOAD
- PULSE FALL TIME (90% to 10%): ---------- 60 ns MAX
- POWER SUPPLY: ---------- +12 to +15 VDC @ 400 mA MAX
-12 to -15 VDC @ 150 mA MAX
- CONNECTORS: ---------- SMA FEMALE CONNECTORS
- RF OUT: ---------- INTERNALLY NOT CONNECTED
- FINISH: ---------- GOLD PLATED

MECHANICAL OUTLINE



OPTIONS

- RFO: ---------- RF OUTPUT INTERNALLY CONNECTED

ENVIRONMENTAL RATINGS

- TEMPERATURE: ---------- -40 °C TO +85 °C (OPERATING)
-65 °C TO +125 °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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES (mm)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN AF	4/8/21
CHECKED	
ISSUED	

TITLE
PRODUCT FEATURE
SDLVA-0R5G18G-50R-30dBm-10

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0		

SCALE N:S SHEET 1 OF 1