

Description:

Model No. SDLVA-8G18G-40-5-SFF is an 8-18 GHz Successive Detector Log Video Amplifier. It is supplied in a ruggedized, hermetically sealed housing measuring only 1.20"L x 0.85"W x 0.40"H. It can be used as a SMA connectorized or a surface mount device in stringent military airborne and ground based environments.

This model provides the following performance.

Specifications:

Frequency Range:	8 to 18 GHz
Frequency Flatness:	± 2.0 dB
Log Linearity over Temp:	± 1.0 dB (Pin = -30 dBm @ -54°C to +85°C)
Logging Range:	-40 to +0 dBm
Input VSWR:	2.5:1 Max.
Maximum RF Input:	+10dBm CW (Survival)
Log Video Output:	Monotonic over the logging range
Log Video Output Voltage:	10mV to 2.25V
Log Video Output Slope:	50 mV / dB ±6.0mV/dB Max.
Log Video Output Rise Time:	25 ns (Pin = -20 dBm @ 10% to 90%) Max.
Log Video Output Fall Time:	30 ns (Pin = -20 dBm @ 90% to 10%) Max.
Log Video Recovery Time:	40 ns (Pin = -20 dBm @ 90% to 10%) Max.
Operating Voltage:	+5V ± 5% (Max. Ripple 100mV pk-pk, 20MHz BW)
Operating Current:	130 mA Max.
Sealing:	Hermetic
Finish:	GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
Weight:	0.9 Ounces Max.
Connectors:	SMA Female
Dimensions:	1.20" X 0.85" X 0.40"

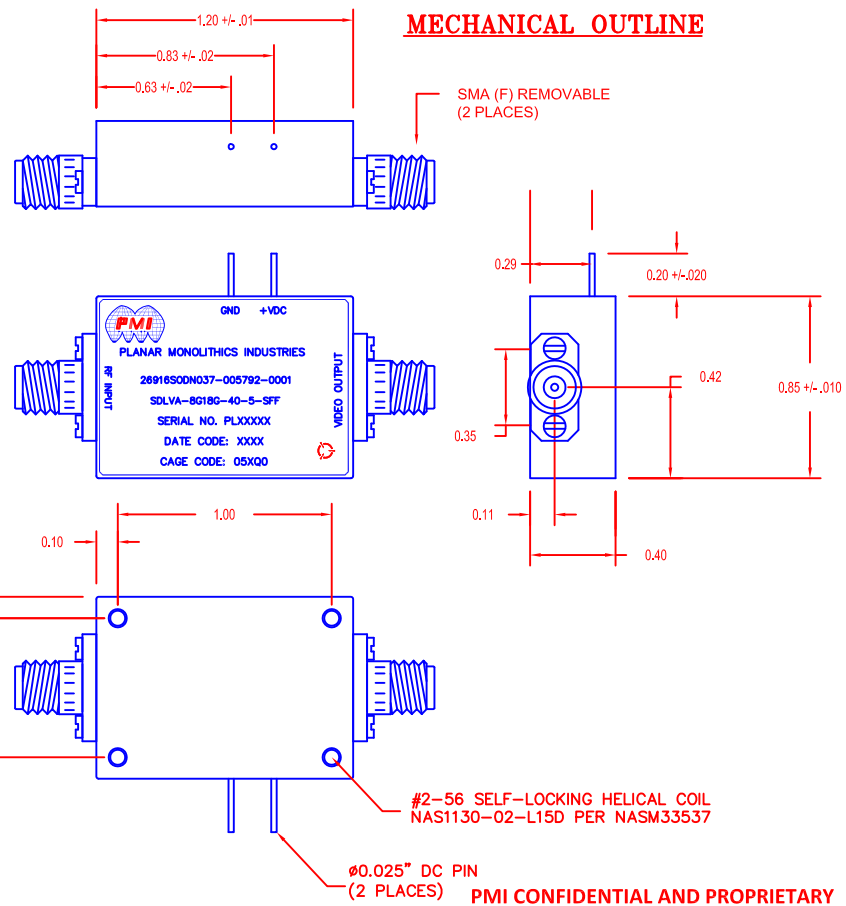
ENVIRONMENTAL RATINGS

- **TEMPERATURE:** ————— -54°C TO + 95°C (OPERATING) – Base Plate
-62°C TO + 95°C (STORAGE)
- **HUMIDITY:** ————— MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** ————— MIL-STD-202F, METHOD 213B COND. B
- **ALTITUDE:** ————— MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** ——— MIL-STD-202F, METHOD 107G COND. A

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	07/26/11	
	B1	Recovery Time	04/10/12	PK
	C1	Pin length 0.20	6/18/12	PK
	C2	ECN # 13-0134	09/03/13	



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APPROVALS		DATE	TITLE		
DRAWN		04/10/12	PRODUCT FEATURE		
CHECKED			SDLVA-8G18G-40-5-SFF		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27015821
			SCALE	N: S	SHEET 1 OF 1
					REV. C2