DESCRIPTION:

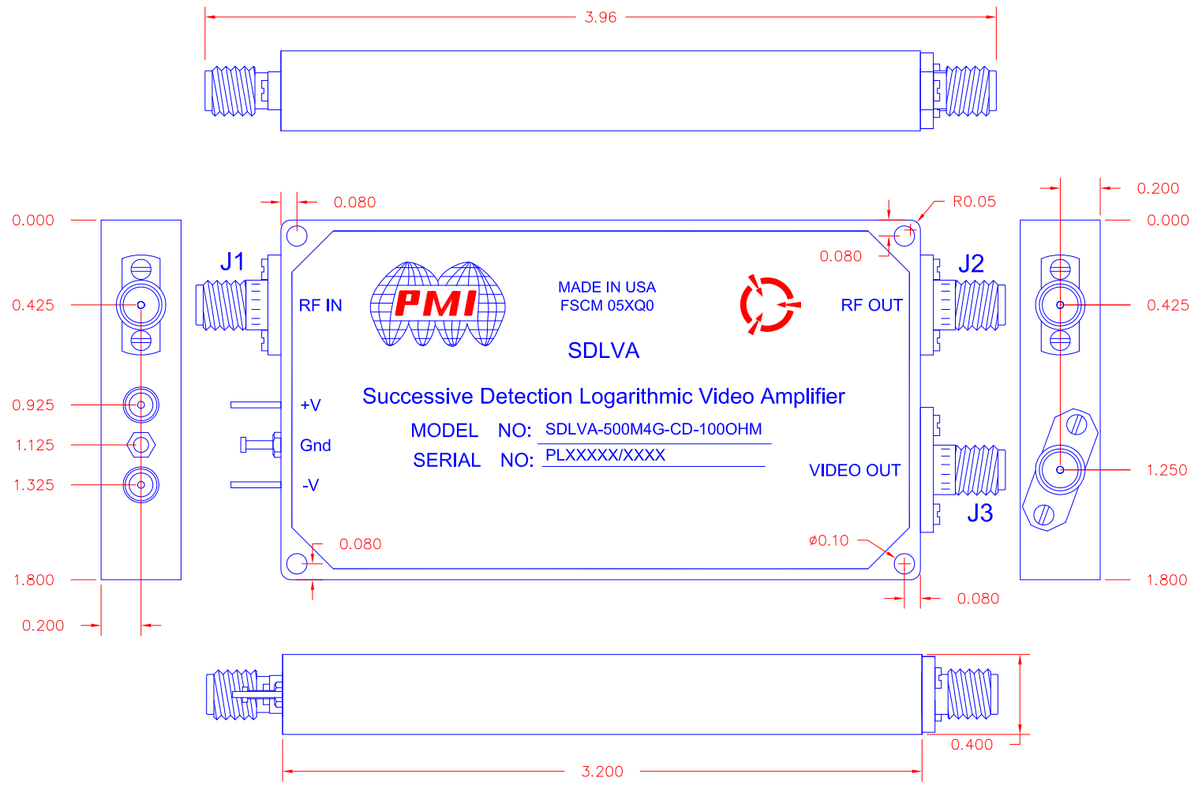
PMI MODEL NUMBER SDLVA-500M4G-CD-100OHM IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 500MHz TO 4GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	6/17/15	JS

SPECIFICATIONS:

FREQUENCY:	500 MHz TO 4.0 GHz
RF GAIN (SMALL SIGNAL)	55 dB Typ.
VIDEO FLATNESS OVER FREQUENCY:	± 50mV Max.
TSS:	-73 dB Typ., -71dB Max.
VSWR:	2.0:1
PSAT:	+ 7dBm Typ.
HARMONICS	-9 dBc Typ.
POWER INPUT:	+17 dBm CW Max.
LOG SLOPE:	25 mV/dB Typ. 100 Ω LOAD
LOG RANGE:	-70 to 0 dBm
LOG LINEARITY:	±2.5 dB (-40°C - +75°C)
DC OFFSET	50 ± 50mV
PULSE RANGE:	30 ns to CW
RISE TIME:	10 ns (5 ns Typ.)
RECOVERY TIME:	60 ns (40 ns Typ.)
POWER SUPPLY:	+15V or +12V @ 350 mA NOMINAL
	-15V or -12V @ 180 mA NOMINAL
CONNECTORS:	SMA FEMALE CONNECTORS
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. MOUNTING SURFACE SHALL HAVE GOLD PLATING AND FREE OF PAINT.



MOUTING SURFACE
PAINT FREE

PMI CONFIDENTIAL & PROPRIETARY

ENVIRONMENTAL RATINGS:

TEMPERATURE:	-40°C TO +75°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
SALT FOG:	MIL-STD-202F, METHOD 107D COND. A
FUNGUS:	MIL-STD-810C, METHOD 508.2
TEMPERATURE CYCLE:	MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN JS	6/17/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
SDLVA-500M4G-CD-100OHM

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

SCALE N:S SHEET 1 OF 1