

PMI MODEL DLVA-50M18D5G-40-LIN-LOG-CD-A IS A 40 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN 50MHz TO 750MHz (LO) AND .75 GHz TO 18.5GHz (HI) FREQUENCY RANGE. IT EMPLOYS PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. IT IS OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY.

ELECTRICAL PERFORMANCE CHARACTERISTICS
@ 25°C ±5°C UNLESS OTHERWISE SPECIFIED

FREQUENCY RANGE:

LO (LOW BAND)	50 MHz TO 750 MHz
HI (HIGH BAND)	.75 GHz TO 18.5 GHz

TSS LOG: -40 dBm

DYNAMIC RANGE:

LOG -40 TO 0 dBm
LIN (LINEAR) -30 TO +3 dBm

RISE TIME:

LO (LOW BAND)	100 ns MAX
HI (HIGH BAND)	25 ns MAX

TRANSFER RESPONSE:

LOG (OUTPUT)	50±5 mV/dB
LIN (OUTPUT)	250±25 mV

FLATNESS:

LO (LOW BAND)	±2 dB MAX
HI (HIGH BAND)	±1.5 dB MAX

RECOVER TIME: DRIFT

LIN ± 5 mV
LOG ± 1 dB

LINEARITY (LINEAR OUTPUT):

UP TO -15 dBm	±0.5 dB
UP TO -10 dBm	±1.0 dB

OUTPUT NOISE:

HIGH BAND 150 mVp-p
LOW BAND 150 mVp-p

DC OFFSET: 75 mV MAX
(LOG AND LINEAR MODES)

[illegible]

SIZE: 4.00" x 3.00" x 1.00"
FINISH: NICKEL PLATED

- **TEMPERATURE:** -55°C TO +85°C (OPERATING)
 -65°C TO +100°C (STORAGE)
- **THERMAL SHOCK:** MIL-STD-202F, METHOD 107 COND. B
- **SHOCK:** MIL-STD-202F, METHOD 213 COND. A
- **SEAL:** MIL-STD-202E, METHOD 112 COND. B OR D

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

[illegible]

PMI CONFIDENTIAL AND PROPRIETARY

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		TITLE			
APPROVALS	DATE	PRODUCT FEATURE			
DRAWN CB HOLMES	5/06/13	DLVA-50M18D5G-40-LIN-LOG-CD-1			
MODIFIED		SIZE A	FSCM NO. 05XQ0	DWG NO. DWG000125	REV A
ISSUED		SCALE 1/2		SHEET 1 OF 1	