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All L17D parts are burned in under power and individually tested by hand before sale.
All L2010 die are wafer probed and verified working before sale or packaging.

Spec. Sheet

INTEGRATED DC-COUPLED LOG VIDEO AMPLIFIER L-17D / L-2010

Characteristic	Value	Notes
Package Size	10mmx10mm, packaged, 2x3 mm die	
Input Rail Voltages	+/-5V to +/- 7V	
Operating Temperature range	-55C to 85C	The L-17D is burned in under power at 147C
Current draws at +/-6V	32ma, I-, I+	
Dynamic range linear input	>92dBv positive input, 80dBv negative input	

Max dynamic range with tunnel diode	50dB	
Max dynamic range with Schottky detector	65dB	
Log linearity	Tunable to +/-1/3db	
Temperature drift	<0.5dB after adjustment	
Input voltage noise density	1.2nv/ $\sqrt{\text{Hz}}$	
Input current noise density	<1pa/ $\sqrt{\text{Hz}}$	
Risetime (10% to 90%)	8ns	With full dynamic range, faster with 2 log stages eliminated
Transit time (50% to 50%)	8ns	Variation in transit time over full dynamic range can be tuned to <2ns
Pulse to CW variation	<.0.2dB	A change in pulse duration from 10 ns to 1 ms (at high duty-cycle) does not affect pulse height for DC coupled designs. For pseudo AC coupled designs 90%+ duty cycles are possible./td>
Fall time to 50mv output	<50ns (with recovery nets)	
Max output voltage	VCC-2.1V	
Output drive capability	80ma	
Output slope	adjustable	

ANADYNE INC
PC17Dv3.1



