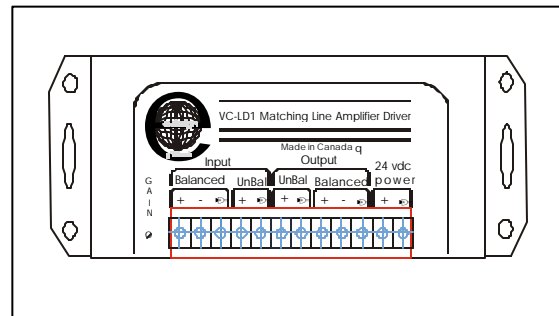


Model VC-LD1 Audio Line Driver Amplifier

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- ??A single-channel audio line driver amplifier
- ??Balanced and Unbalanced inputs and outputs
- ??High/Low or Low/High impedance conversion
- ??Instrumentation input isolate ground loops.
- ??Precisely matches audio levels.
- ??True DC amplification
- ??Built in Surge protection regulates the dc power.



APPLICATION: The VC-LD1 is part of a group of products in the contractor series from e-design by Veltronic. The VC-LD1 gives you the advantages of balanced/unbalanced signal conversion, impedance conversion, level boost or cut. The VC-LD1 allows bridging of any audio line, adjusting the gain, and driving a balanced and an unbalanced line output simultaneously. The circuit design allows the input to accept simultaneously summed balanced and unbalanced signals, of either high or low impedance. An *instrumentation type* input stage that will amplify the differential input, regardless of ground reference. This offers increased possibilities for eliminating ground loops in audio systems. The output is capable of driving into either high or low impedance loads. And the both balanced and unbalanced output may be connected simultaneously to drive two devices. The VC-LD1 features superior circuitry that produces the unsurpassed pure clarity for which Veltronic products are known!

Some features are:

- ??Functions as an electronic transformer with isolation and gain (or loss)
- ??Impeccable audio quality
- ??Ultra-low distortion and noise
- ??Output level adjustable for all ranges of conversion between -10 dBV and +4dBu signals.
- ??Ample headroom at operating level
- ??Full operation in either high or low impedance circuits
- ??Outputs short-circuit protected.
- ??Positive connections via barrier block - no audio connectors to wire

Whether you need to simply boost a line level, convert between balanced and unbalanced lines or convert between high and low impedances, the VC-LD1 is a simple, no-compromise, cost-effective solution! Comes supplied with 1 strip of double-sided tape, 1 set of adhesive quick mount strips, 4 tapered machine screws as mounting hardware.

TYPICAL PERFORMANCE

- Gain :Balanced output -7 dB to +14 dB
Unbalanced output -14 dB to +7 dB
- Headroom : >18 dB (above +4dBu)
- Supply Input : 24 to 33 Vdc @ 50 mA Floating Vdc (external supply). Center tapped power supplies may be used by connecting the +12vdc supply to the +24v terminal, the -12vdc supply to the Power ground terminal and the 0volt ct supply to any audio ground terminal.
- Dimensions :Height: 1. in., Depth: 2 in, Width: 4.00 in. (5.00 in. including mounting tab)
- Input (1) : 10 k Ω balanced or unbalanced bridge.
- Input (2) : 10 k unbalanced .
- Outputs (1) : 200 Ω balanced (to drive low or high impedance.)
- Outputs (2) : 10k Ω unbalanced (to drive unbalanced lines.)
- THD+N : <0.050% (Typical 0.020% @ 1 kHz)
- Freq. Response: 10 Hz to 20 kHz (+/- 0.25 dB)
- Noise below +4dBu: <75 dB
- CMRR: >50 dB at full gain (100 Hz).