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NO RECOMMENDED REPLACEMENT  
contact our Technical Support Center at  
1-888-ELANTEC x311**

**Differential Line Driver/Receiver**



The EL1501 contains two wideband high-voltage drivers and two receive amplifiers. It is designed to drive

45V<sub>P-P</sub> signals at 2MHz into a 200Ω load differentially with very low distortion. The receive amplifiers also provide very low distortion and noise, and with external resistors can be wired as a hybrid coupler.

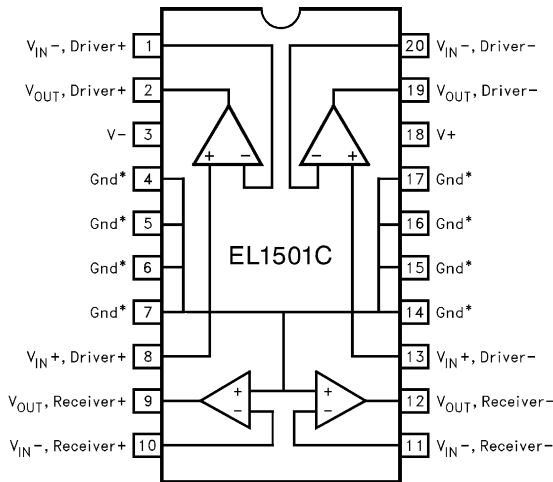
All amplifiers are of the current-feedback type, giving high slewrates while consuming moderate power. They retain frequency response over a wide range of externally set gains.

The EL1501 operates on ±5V to ±15V supplies, and retains its bandwidths and linearities over the supply range.

Eight center package pins are used as ground connections and heat spreaders, allowing a dissipation of 2W at the maximum ambient temperature of 85°C.

**Pinout**

**EL1501  
(20-PIN SO)  
TOP VIEW**



\*Subscriber Line Interface Device

**Features**

- Complete ADSL differential driver and receiver
- 45V<sub>P-P</sub> differential output drive into 200Ω
- -60dB typical output distortion at full output at 2MHz
- -73dB typical receive distortion at 15V<sub>P-P</sub> levels at 2MHz
- Drives 8 single-ended video loads, or 4 S-VHS loads, or 4 differential video loads
- Power surface-mount package

**Applications**

- ADSL line interface
- HDSL line driver
- Video distribution amplifier
- Video twisted-pair line driver

**Ordering Information**

PART NUMBER	PACKAGE	TEMP. RANGE	PKG. NO.
EL1501CM	20-Pin SO	-40°C to +85°C	MDP0027

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