



# ELT1037

## Low Noise Precision Op-Amp

**Linear Technology** die\* packaged and tested by Eltek Semiconductors Ltd. is intended for harsh environments. These parts are 100% interchangeable with the original parts offered by Linear Technology for military applications.

These devices are also drop in replacements with improved performance for the industry standard **OP37**.

A post package trim process achieves the very low offset voltage that is a key feature of this device.

The ELT1037 is available in the following hermetic packages:

- TO-5 metal can
- 8-pin CERDIP
- 20 pad CLCC

\* Linear Technology supply die to Eltek Semiconductors for manufacture of this device, all guarantees of performance and warranty are provided by Eltek Semiconductors and not by Linear Technology. All devices are clearly marked as manufactured by Eltek Semiconductors.

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### KEY SPECIFICATIONS

- -55 to 125 C operation
- $A_{VCL} = 5$
- 4.5 nV/v Hz 10Hz noise
- 3.8 nV/v Hz 1kHz noise
- 0.1 Hz to 10 Hz noise, 60nV p-p typical
- 20 million typ. voltage gain ( $R_L = 2K$  Ohms)
- SR 15 V/ $\mu$ S typical
- 10 $\mu$ V typ. max. offset voltage
- TCVo's 0.6  $\mu$ V/ $^{\circ}$ C max.
- 117dB min. CMRR

### TYPICAL APPLICATIONS

- Low noise signal processing
- Microvolt accuracy threshold detection
- Strain gauge amplifiers
- Direct coupled audio gain stages
- Sine wave generators
- Tape head Preamplifiers
- Microphone Preamplifiers

### PART NUMBERS AVAILABLE

