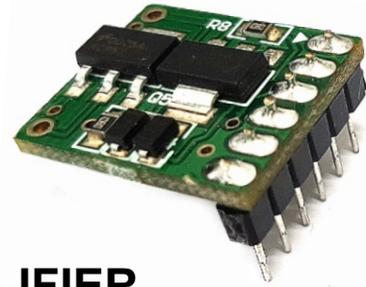




time*machine*

# TopAmp™



## Discrete Class-A AUDIO OPERATIONAL AMPLIFIER

### FEATURES

- **ULTIMATE SONIC CLARITY**
- **DISCRETE BIPOLAR CLASS-A DESIGN**
- **+26dBu MAXIMUM SIGNAL HANDLING**
- **ULTRA LOW DISTORTION: 0.0003%**
- **ULTRA LOW NOISE: 1.8nV/√Hz AT 40dB GAIN**
- **COMMON MODE REJECTION >80dB**
- **OPEN-LOOP GAIN: >70dB**
- **SLEW RATE: 8V/us**
- **FULL POWER BANDWIDTH: 2MHz**
- **WIDE SUPPLY RANGE: ±5V to ±24V**

### APPLICATIONS

- **PROFESSIONAL AUDIO OEM**
- **MIXING CONSOLES**
- **SUMMING AMPLIFIERS**
- **PREAMPLIFIERS**
- **EQUALISERS**
- **COMPRESSORS**
- **ACTIVE FILTERS**
- **CROSSOVERS**
- **LINE DRIVERS**
- **LINE RECEIVERS**

### DESCRIPTION

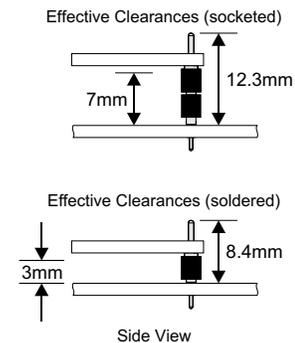
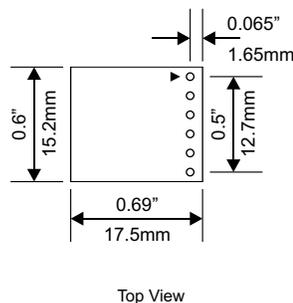
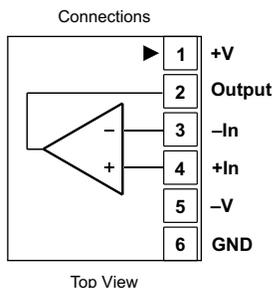
The TopAmp is a specialist audio operational amplifier that uses pure class-A circuitry from input to output, designed to re-capture the clarity and character of classic audio recordings from the 1960's and 1970's.

Derived from a long-held understanding that where sonic fidelity is concerned, "less is more", the TopAmp uses the absolute minimum of components necessary to achieve the performance expected from a modern op-amp in terms of noise, distortion and power supply rejection. Only five transistors are in the signal path.

Bipolar pnp devices are used for low noise yet the TopAmp still has an input impedance of over 50M. A matched pair of input transistors provides good common-mode rejection, while medium-power output transistors combine effortless load driving with effective heat dissipation.

When operated at ±24V, input and output signals of +26dBu are accommodated. Even at maximum signal level, distortion is still only 0.04% and is mostly second harmonic.

The TopAmp has a 6-pin in-line connector with a 0.1" (2.54mm) pitch and mounts horizontally to suit applications with limited height, such as 1U rack enclosures, 500 Modules and mixer channels. It can be soldered directly into a PCB or mounted in a turned-pin SIL socket.



The information in this document is intended to be accurate but is subject to change without notice and should not be construed as forming part of any contract.