

SSI2164 PRELIMINARY

FOUR-CHANNEL VOLTAGE CONTROLLED AMPLIFIER

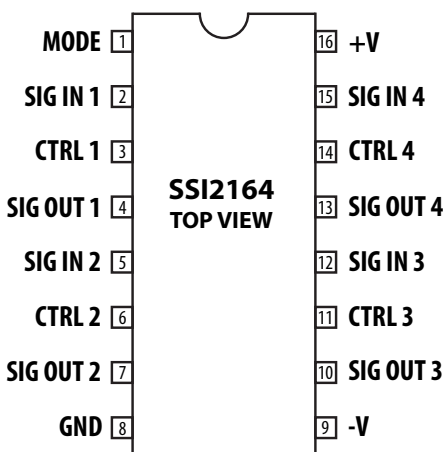
The SSI2164 provides four independent, high-performance VCA's in a single package. A unique Mode control allows selection between Class A or Class AB operation using a single resistor to optimize noise or distortion performance. Current input and output for audio signals provides design flexibility, with ground-referenced -33mV/dB control ports.

The SSI2164 will operate on supplies as low as $\pm 4V$ for battery-powered devices, or up to $\pm 18V$ in systems where maximum headroom is needed.

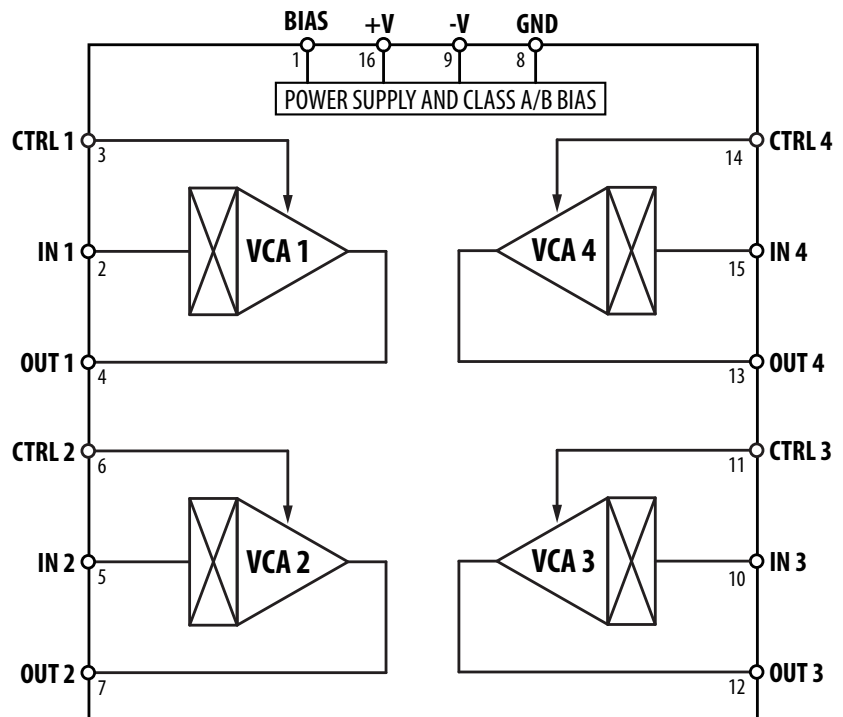
Depending on the bias mode selection, extremely low noise (-94dBu typical, Class AB) or distortion (0.02%, Class A) can be achieved. The SSI2164 offers low control feedthrough, channel-to-channel gain matching of less than 0.25dB, and a wide gain range of 120dB.

FEATURES

- Drop-In Replacement for SSM2164
- Pin-Selectable Class A or AB Operation
- 116dB Dynamic Range (Class AB)
- Low Distortion – Typical 0.02% (Class A)
- Large Gain Range: -100dB to +20dB
- $\pm 4V$ to $\pm 18V$ Operation
- No External Trimming
- Low Control Feedthrough – Typical 1.5mV



PIN CONNECTIONS
16-PIN SOP
16-PIN EPOXY DIP (future)



FUNCTIONAL BLOCK DIAGRAM