

AS2604 - High Performance Operational Amplifier (Available Now)

Written by Administrator

Tuesday, 15 September 2009 06:38 - Last Updated Thursday, 21 October 2010 16:37

AS2064 High Performance Operational Amplifier - Product Available from Anpac Distributors

General Description :

- The AS2604 is ultra low distortion, low noise, and high slew rate and high performance operational amplifier. Based on the leading edge process technology with state-of-the-art circuit design, the AS2604 operational amplifier delivers superior audio signal amplification with outstanding performance. The AS2604 combines extremely low voltage noise density with low THD+N (< 0.00003%) to easily satisfy the most demanding general application especially in audio. To ensure that the most challenging loads are driven without components, the AS2604 has a high slew rate of $\pm 22\text{V}/\mu\text{s}$ and an output current capability of 26mA. Further dynamic range is maximized by an output stage that drives 2KW loads to within 1V of either power supply voltage and to within 1.4V when driving 600W loads.
- The AS2604's outstanding CMRR (110dB), PSRR (110dB) and VOS (300 μV) give the amplifier excellent DC performance.
- The AS2604 has wide supply range of $\pm 2.5\text{V}$ to $\pm 18\text{V}$. Over supply range, the amplifier's input circuitry maintains excellent common mode and power supply rejection, as well as maintaining its low input bias current. The amplifier is unity gain stable. The operation amplifier achieves outstanding AC performance while driving complex loads with values as high as 100pF.

Key Specification :

- | | |
|--|---------------------------------------|
| - Power supply voltage range | $\pm 2.5\text{V}$ to $\pm 18\text{V}$ |
| - THD + N (AV= 1, VOUT = 3VRMS, fIN= 1KHz, RL= 600 Ω , LPF 20KHz) | <0.00003% |
| - Input Noise Density | 5nV/Hz |
| - Slew rate | $\pm 22\text{V}/\mu\text{s}$ |
| - Gain Bandwidth Product | 23MHz |
| - Open loop gain (RL = 600 Ω) | 130dB |
| - Input Bias current | 50nA |
| - Input Offset Voltage | 300 μV |
| - DC gain linearity Error | 0.00001% |

Features :

- Easily drives 600 Ω loads
- Optimized for superior audio signal fidelity
- Output short circuit protection
- PSRR and CMRR exceeds 110 dB

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