

Product Overview

KA331: Voltage to Frequency Converter

For complete documentation, see the data sheet.

This voltage-to-frequency converter provides the output pulse train at a frequency precisely proportional to the applied input voltage. The KA331 can operate at power supplies as low as 4.0V and be changed output frequency from 1Hz to 100KHz. It is ideally suited for use in simple low-cost circuit for analog-to digital conversion, long term integration, linear frequency modulation or demodulation, frequency-to-voltage conversion, and many other functions.

Features

- Guaranteed linearity: 0.01% max.
- Low power dissipation: 15mW at 5V
- Wide range of full scale frequency: 1Hz to 100KHz
- Pulse output compatible with all logic forms
- Wide dynamic range: 100dB min at 10KHz full scale frequency

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

| Product | Compliance | Status | Topology | Control Mode | V _{CC} Min (V) | V _{CC} Max (V) | V _o Typ (V) | I _o Typ (A) | Efficiency (%) | f _{sw} Typ (kHz) | Package Type |
|---------|------------------------|--------|-----------|--------------|-------------------------|-------------------------|------------------------|------------------------|----------------|---------------------------|--------------|
| KA331 | Pb-free Halide free | Active | Step-Down | Voltage Mode | 4 | 40 | - | - | - | 100 | PDIP-8 |

For more information please contact your local sales support at www.onsemi.com.

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