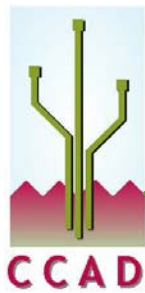


Adjustable Voltage Regulator

CCAD906 Datasheet



Product Description

This module, in conjunction with an external bandgap reference, produces an accurate voltage that is programmable to 1.200V, 2.048V, 2.560 and 3.072V. The precision voltage reference provides an initial tolerance of $\pm 0.3\%$ and temperature stability of 50ppm/C. The circuit was designed and fabricated in TSMC's 0.18u CMOS technology, and has been fully characterized for adherence to the Electrical Performance Specifications.

It is available as a GDSII layout file, and includes a Cadence library containing schematics, symbols and cell layouts. CCAD also provides an AHDL model for system simulation.

The CCAD906 is an ideal circuit for integration into a wide variety of ASICs and ASSPs.

CCAD also offers customization and integration services.

Features

- Precision voltage reference
- Adjustable output of 1.200V, 2.048V, 2.560 and 3.072V
- Initial accuracy @ $\pm 0.3\%$
- Temperature drift ± 50 ppm max (including 20ppm from the bandgap)
- Maximum supply current :100uA @ 25C
- Output current drive ± 2 mA max
- Provides a low-power stand-by-mode
- Industrial temperature range [-40C to 125C]

- Die Area [307um x 290um]
- Available in TSMC 0.18u CMOS
- Portable to other CMOS processes

Applications

- DACs, ADCs

Circuit Diagram

