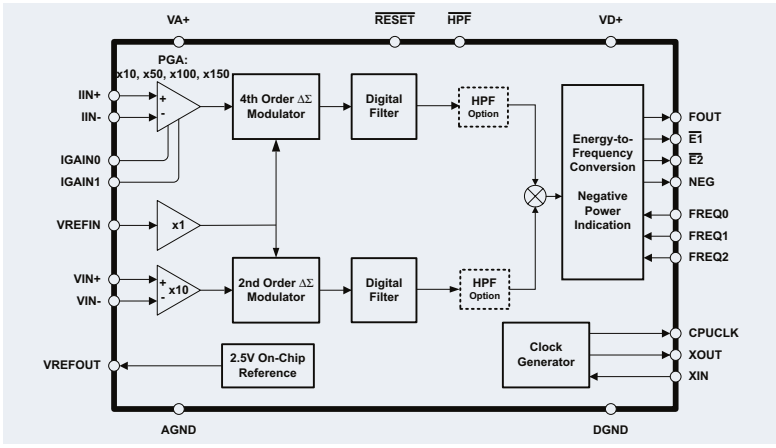
CIRRUS LOGIC®

Leading the Digital Entertainment Revolution™

CS5466



CS5466

8.2 mm

8.5 mm

IC Dimensions
(maximum—pins included)

Residential Power-Meter Designers Impressed with New IC's Features and Performance

Accurate Performance & Long-Life Operation

- Energy data linearity: ±0.1% of reading over 1000:1 dynamic range
- On-chip functions: measures energy and performs energy-to-pulse conversions
- Meets accuracy spec for IEC-687/1036
- Current Channel Features
  - 24-bit, fourth-order, Delta-Sigma A/D converter for precise measurements
  - High-pass filter
  - Four input gain range options
- On-chip 2.5 V reference (tempco 25 ppm/°C typ)
- On-chip energy direction indicator
- 24-pin SSOP package

Cirrus Logic CS5466

High Integration Delivers Big Savings

The Cirrus Logic® CS5466 is an ideal low-cost solution for electronic residential power-meter applications. The new IC provides multiple gain ranges, an energy-to-frequency converter, energy-pulse outputs, and configurable-pulse outputs for a stepper motor or mechanical counter. This impressive single-chip integration eliminates the inconvenience and expense of a separate microprocessor or EEPROM—which saves BOM costs, reduces design time and results in improved power-meter product margins.

Proven Technology Ensures Accuracy and Reliability

The CS5466 includes a 2.5 V on-chip reference that is optimized for simple-function meters. A superior 24-bit, fourth-order, Delta-Sigma A/D converter delivers accurate readings. The CS5466 also provides excellent energy data linearity (1000:1 dynamic range, ±0.1% of reading). Outstanding temperature stability results in long-life operation, which improves end-user satisfaction and minimizes warranty expenditures.

Accurate performance and long-life operation in a low-cost design—the CS5466 delivers precisely what is needed to succeed in the electronic residential power meter market.

www.cirrus.com

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