



12-BIT, 1MSPS SUCCESSIVE APPROXIMATION ANALOG TO DIGITAL CONVERTER



SCL Part No.

SC1236-0T2

PRODUCT DESCRIPTION:

The 12-bit SAR is a monolithic CMOS analog-to-digital converter capable of converting analog input signals into 12-bit digital word at 1 Mega samples per second (MSPS). This converter uses a SAR architecture, operating on a single 3.3V power supply, device achieves 12-bits effective resolution and consumes <10mW power. The inputs provide a full scale input swing equal 0 to 3.3V. Full scale input range is recommended for optimum performance. The ASIC is fabricated in 0.18 μ m SCL CMOS Standard Logic Process.

FEATURES:

- Operating Voltage: 3.3V
- Resolution: 12-Bit
- Data Rate: 1MSPS
- Input Range: 3.3Vp-p Single Ended
- No missing code Guaranteed
- Output Data Format: Straight Binary
- Power Consumption < 10mW
- SCL's 180nm CMOS Technology
- Operating Temperature (TA): -55°C to +125°C
- Packaged in 64 Pins, CQFP

