



12 BIT, 20MSPS DIGITAL TO ANALOG CONVERTER



SCL Part No.

SC1605-0

PRODUCT DESCRIPTION:

The SC1605 is a two channel (complementary output) precision fully integrated 12 bit digital to analog converter with full scale current of 2mA. It has got an on chip precise low drift voltage reference of 1.2V. There is an option of disabling the on chip reference to apply external reference. Latches are provided for high speed synchronization providing better AC characteristics for DAC. Additional option is provided for disabling the latches in case latches have to be bypassed. On chip power on reset is also provided so that the chip output doesn't go to unknown state at the time of power on.

FEATURES:

- Operating Voltage: 3.3V
- Resolution: 12 Bits
- Data Rate: 20MSPS
- 2mA Full Scale Input Range
- Power Down Mode
- Monotonicity Guaranteed
- Power On Reset
- On Chip 1.2V Reference
- Power Down Feature
- SCL's 180nm CMOS Technology
- 64 Pin CERQUAD Package
- θ_{jc} : 3.77 °C/W

APPLICATIONS:

- Battery powered instruments
- Digital gain and offset adjustments
- Programmable voltage and current sources
- Process control
- Actuator control

