

DIGITAL SERVO LOOP (DSL) ASIC



SCL Part No.

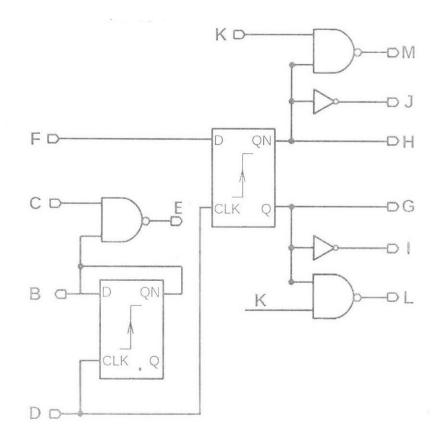
SC1119-0

PRODUCT DESCRIPTION:

Digital Servo loop SC1119-0 is planned to be used in ASIC based Ceramic Servo Accelerometer (CSA). High resolution acceleration output will be directly available from the sensor, dispensing with the need of digital converter circuits. The circuit blocks that are supported by 180nm CMOS technology are realized as one ASIC chip through SCL. The DSL ASIC along with differential pre amplifier and a few tuning elements will form the complete electronics for the ASIC based CSA. This will enable integration of the electronics along with the sensing within the CSA sensor housing itself

FEATURES:

- 5V ± 10% Single Power supply
- 30 mA Source/Sink Capability
- Low quiescent current 1uA
- IIH <100 nA, IIL = 250-350 uA
- Operating Temperature -55°C to 125°C
- Packaged in 64 lead CQFP (z-type)
- SCL's 180nm CMOS Technology
- Die / Custom Package Options



Functional Block Diagram