

MM4015

2023/03/22

Outline

The MM4013, MM4014 and MM4015 are precision, low-power, 12-bit delta sigma analog-to-digital converter IC with I2C compatible interface. MM4014 and MM4015 have build-in PGA (programmable gain amplifier) and well suited sensor measurement applications by switching input voltage range. MM4015 can measure by two differential or four single-ended input. This ADC operate in either continuous-conversion mode or single-shot conversion mode.

Features

- ①Ultra Small SQFN package: 2.0(W) × 1.5(D) × 0.4(H)mm
- ②12-Bit Noise-Free Resolution
- ③Programmable Data Rate : 128 sps to 3.3 Ksps
- ④Single-Cycle Settling
- ⑤Four Single-Ended or Two Differential Inputs(MM4015)
- ⑥Low Current Consumption:150μA(Continuous-Conv. Mode)
- ⑦Internal Low-Drift Voltage Reference and Internal Oscillator
- ⑧Programmable Comparator(MM4014 or MM4015)

Specifications

Number of input channels [ch]	Resolution [bit]	Sampling Rate [Ksps]
4	12	3.30

Specifications	Number of input channels [ch]	Resolution [bit]	Sampling Rate [Ksps]	Integral nonlinearity error [LSB]	Communication I/F	Package
MM4015A12RBE	4	12	3.30	-0.5~0.5	I2C	SQFN-10Δ

MM4015

2023/03/22

MM4014A12RBE	2	12	3.30	-0.5~0.5	I2C	SQFN-10A
MM4013A12RBE	2	12	3.30	-0.5~0.5	I2C	SQFN-10A