

MM4027A16

2023/12/06

Outline

MM4027A16 is a high-performance 16Bit sophisticated successive approximation analog-to-digital converter IC supporting pseudo-differential inputs. Simultaneous sampling of differential signals through two channels is available. The maximum data sampling rate is 750ksps, controlled by an external clock. This IC supports a serial interface.

Features

- ① Power supply for analog: 5 V/Power supply for digital: 1.8 to 5 V
- ② 16bit successive approximation ADC
- ③ Simultaneous sampling and conversion through two channels
- ④ Two channels of pseudo-differential analog input
- ⑤ Sampling rate: 750ksps at the maximum
- ⑥ Use of external reference voltage
- ⑦ AVDD current consumption: 8mA typ.

Specifications

Specifications	Number of input channels [ch]	Resolution [bit]	Sampling Rate [ksps]	Integral nonlinearity error [LSB]	Differential nonlinearity error [LSB]	Communication I/F
MM4027A16RLE	2	16	750.00	-2.5~2.5	-1.0~2.0	SPI

Specifications	Package
MM4027A16RLE	SQFN-16A