

PART NUMBER
SPEC-STEP 1/2

STEP1 and STEP2 Specifications

Configuration: One STEP1 required to drive 1 to 4 STEP2 Modules

Channels: One motor channel per STEP2 module

STEP2 Outputs: LS TTL compatible, high true

Output High: 0.4mA source @ 2.7V min.

Output Low: 4mA sink @ 0.4V max.

Output Signals: four; cw/ccw, ccw/cw, pulse and pulse

Pulse Signal Duration: 50% duty cycle

STEP2 Limit Input: LS TTL compatible, low true or switch closure to ground (internal pull-up resistor provided)

Input High: 3.2V min.

Input Low: 0.4mA @ 0.9V max.

Signal Duration: ≥ 50ns

Slew Rate: 1 to 65,535 steps per second maximum in 1sps increments, software programmable

Speed Accuracy: 0.01% of full scale frequency

Positioning Modes:

Absolute: 65,535 positions

Relative: ±65,535 steps

Positioning Speed: 16,000sps maximum, software programmable

Ramp Rates: 15 rates, software selectable from 4,096sps² to 32,768²

STEP1 on-board Microprocessor: 68B09 8/16 bit

Command Buffer Size: approx. 66 commands per motor (233 bytes)

Commands: 14 high level commands callable from BASIC and fully integrated with Keithley's SOFT500 extended BASIC measurement and control software.

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SPECIFICATIONS (DAC) PART NUMBER
SPEC-STEP 1/2