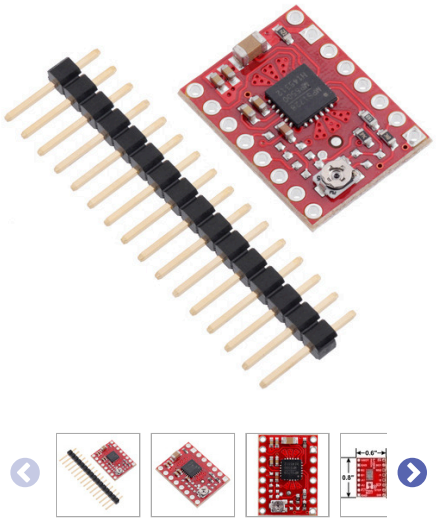
MP6500 Stepper Motor Driver Carrier, Potentiometer Current Control



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Brand: Pololu **supply outlook**
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1	6.95
5	6.39
25	5.88
100	5.41

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This breakout board for the MPS MP6500 microstepping bipolar stepper motor driver has a pinout and interface that are very similar to that of our popular **A4988 carriers**, so it can be used as a drop-in replacement for those boards in many applications. The MP6500 offers up to 1/8-step microstepping, operates from 4.5 V to 35 V, and can deliver up to approximately 1.5 A per phase continuously without a heat sink or forced air flow (up to 2.5 A peak). This version of the board uses an **on-board trimmer potentiometer for setting the current limit**, and the board ships with 0.1″ male header pins included but not soldered in.

Alternatives available with variations in these parameter(s): current limit control header pins soldered? **Select variant…**

or .

Description Specs (14) **Pictures (10)** **Resources (9)** **FAQs (4)** **On the blog (2)** **Distributors (50)**

Dimensions

Size:	0.6″ × 0.8″
Weight:	1.4 g[1]

General specifications

Minimum operating voltage:	4.5 V
Maximum operating voltage:	35 V
Continuous current per phase:	1.5 A[2]
Maximum current per phase:	2.5 A[3]
Minimum logic voltage:	2.1 V[4]
Maximum logic voltage:	6 V[5]
Microstep resolutions:	full, 1/2, 1/4, and 1/8
Current limit control:	potentiometer
Reverse voltage protection?:	N

Header pins soldered?:	N

Identifying markings

PCB dev codes:	md33a, md33b
Other PCB markings:	0J10855, 0J11019

Notes:

1 Without included optional headers.
2 Without a heat sink or forced air flow.
3 With sufficient additional cooling.
4 This is the input logic high threshold.
5 Absolute maximum voltage on any input is 6.5 V.