


Part number: SuprMike[®]

Linear actuator: DC Servo motor micrometer
Expansion range: Up to 15, 20, 30 or 50mm
Gearheads available: 34.165:1, 63.75:1, 137.5:1, 240:1
Maximum motor voltages: 6V (direct power from USB) or 12V
Rotary encoder: 10bit (1024 counts per motor revolution)
Micrometer screw pitch: 0.5mm / turn
Design/measured resolution: 0.007µm / 0.05µm
Bi-directional repeatability: 1µm
Maximum speed: 150,000 c.p.s. or 2.5mm/s (with 34.3:1 gearhead motor)
Maximum load: 20N
Available options: Position feedback, limit switches, nonrotating tip.
Recommended controller: DSP-21 

Dimensions: 5 x 0.75"



Photo (tip at 50%)



3-D

The actuator is delivered with a 25cm long ribbon cable equipped with an IDC 10pin connector. The pin-out is listed below:

Pin 1	Motor +
Pin 2	+5V to encoder
Pin 3	Encoder Ch. A
Pin 4	Encoder Ch. B
Pin 5	Ground.
Pin 6	Motor -
Pin 7	NC (optionally Index or Absolute)
Pin 8	Positive limit switch (optional)
Pin 9	Negative limit switch (optional)
Pin 10	Ground.