



Pololu Micro Metal Gearmotors are available in a variety of different gear ratios, from 5:1 up to 1000:1, and with five different motor options:

- **LP 6V:** Low-power 6 V with precious metal brushes
- **MP 6V:** Medium-power 6 V with precious metal brushes
- **HP 6V:** High-power 6 V with precious metal brushes
- **HPCB 6V:** High-power 6 V with long-life carbon brushes
- **HPCB 12V:** High-power 12 V with long-life carbon brushes



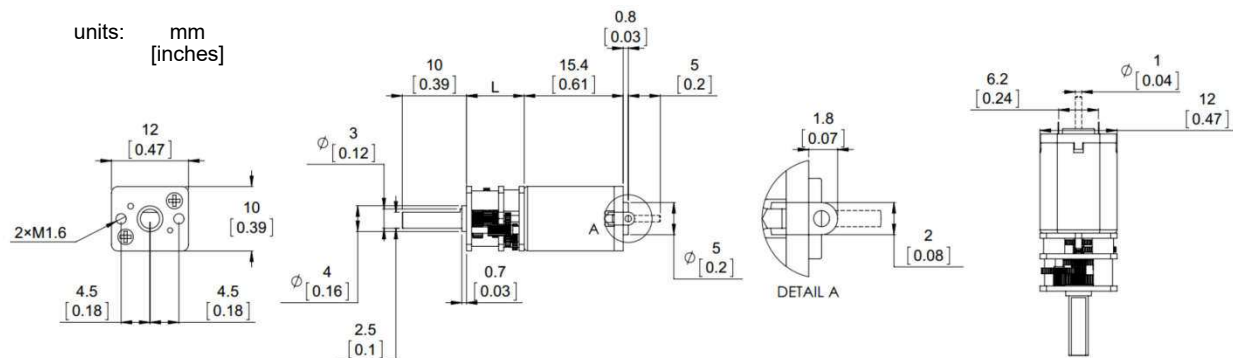
carbon
brushes



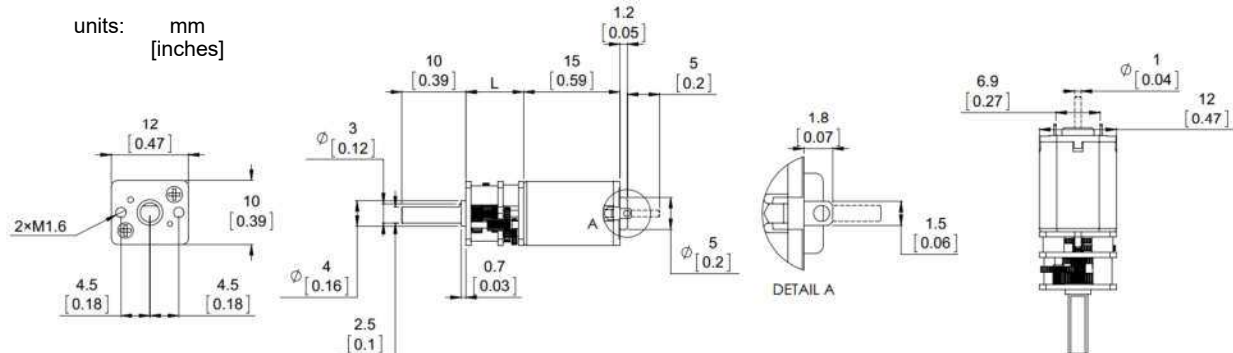
precious metal
brushes

Each motor is available with an optional extended rear motor shaft to allow for the addition of an encoder such as Pololu item #3081 Magnetic Encoder Pair Kit.

Dimensions of versions with carbon brushes (HPCB)



Dimensions of versions with precious metal brushes (HP, MP, LP)



L = 9 mm [0.35 in] for all gear ratios except 1000:1. L = 12.5 mm [0.49 in] for the 1000:1 gear ratio. Max length for M1.6 mounting screws is 1.3 mm (from gearbox mounting surface). Approximate weight is 10 g.