

ULTRA-MICRO BRUSHLESS & CORELESS MOTOR

VAXOR $\Phi 6$ SERIES

$\Phi 6$ mm ULTRA-MICRO BRUSHLESS & CORELESS MOTOR

*Designed for precision medicine, photon optics, consumer electronics, and other miniature devices with stringent space, speed, and weight requirements. Refer to the specifications before use and avoid operation beyond the stated limits. Contact us for product and technical inquiries.

$\Phi 6$ mm

Product Diameter

63,000 rpm

No Load Speed

0.49 mN•m

Nominal Torque

3.75 g

Total Weight



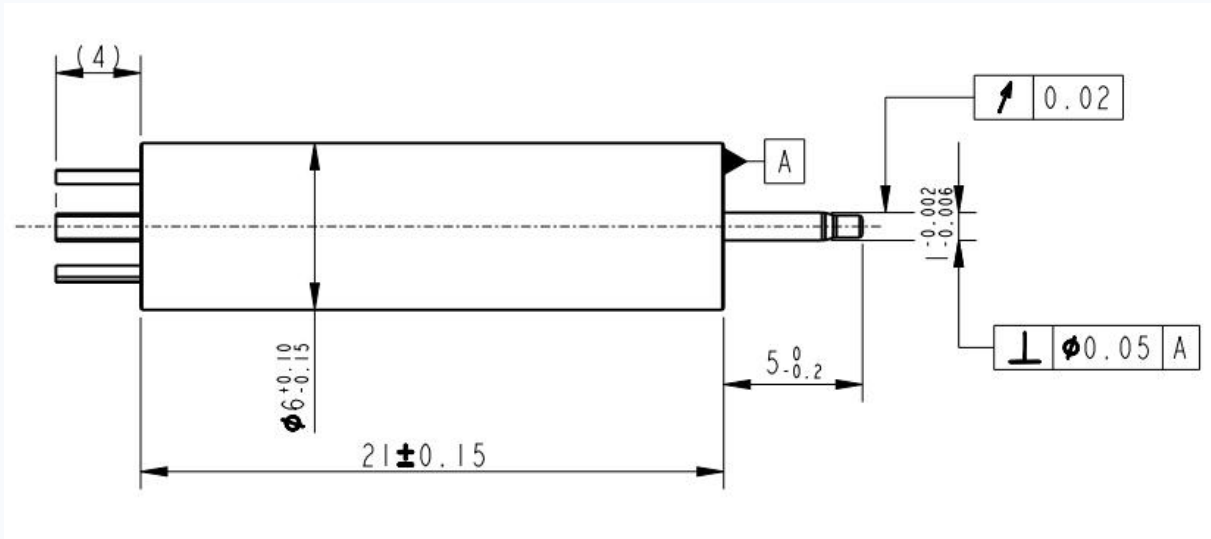
G06P-VW00-QZ-1

Φ6 Technical Specifications & Mechanical Dimensions

Parameter	Unit	Value
Nominal Voltage	V	12
No Load Speed	rpm	63000
Nominal Speed	rpm	45000
Nominal Torque	mN·m	0.49
*Nominal Phase Current	A	0.55
*Stalling Torque (Max)	mN·m	0.98
*Stalling Phase Current (Max)	A	1.1
*Terminal Resistance	Ω	3.4
Unbalanced Three-Phase Resistance	%	≤5%
*Terminal Inductance	mH	0.072
Unbalanced Three-Phase Inductance	%	≤5%
Torque Constant	mN·m/A	1.05
Speed Constant	rpm/V	9094
Rotor Inertia	mg·cm²	24.4
Total Weight	g	3.75

*Indicates a deviation of ±10% between actual and theoretical values.

MECHANICAL DIMENSIONS



THERMAL DATA

Parameter	Unit	Value
Loss Power	W	2.85
Chassis Temperature	°C	145