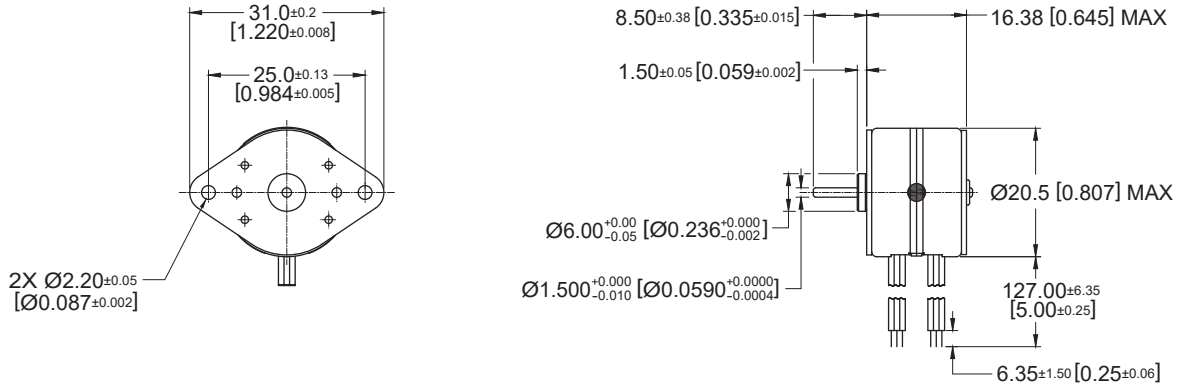
20M020D

Ø 20 mm • RoHS Compliant • 11 mNm



Dimensions in mm [inches]

Electrical Data	20M020D•• 1U Unipolar	2U Unipolar	1B Bipolar	2B Bipolar	Unit
1 Operating Voltage	5	12	5	12	VDC
2 Resistance per Phase, ± 10%	20.0	115.2	20.0	115.2	Ohms
3 Inductance per Phase, typ	3.9	20.3	7.8	52.8	mH
4 Rated Current per Phase *	0.25	0.10	0.25	0.10	A
Coil Independent Parameters					
5 Holding Torque, MIN *	7.8 (1.11)	7.8 (1.11)	11.0 (1.56)	11.0 (1.56)	mNm (oz-in)
6 Detent Torque, Max	3.53 (0.5)				mNm (oz-in)
7 Rotor Inertia	0.41 (0.00224)				gcm² (oz-in²)
8 Step Angle	18.0				Degree
9 Absolute accuracy 2 ph. On, Full step	± 1.5				Degree
10 Steps per Revolution	20				
11 Ambient Temp Range (operating)	-20 to +70 (-4 to +158)				°C (°F)
12 Maximum Coil Temperature	130 (266)				°C (°F)
13 Bearing Type	Sintered Bronze Sleeve				
14 Insulation Resistance at 500 VDC	100				Mohms
15 Dielectric Withstanding Voltage	450 VRMS for 2 seconds				VAC
16 Weight	23.5 (0.832)				g (oz)
17 Leadwire	AWG 28, UL 1429				

Note: All motor data values at 20° C unless otherwise specified
* Energize at rated current, 2-Phase On

