



DIMENSIONS: MILLIMETERS  
INCHES

15M020D

Electrical Data	15M020D1B-N Bipolar	
1 Operating Voltage	5	VDC
2 Resistance per Phase, ± 10%	40.0	Ohms
3 Inductance per Phase, typ	14.0	mH
4 Rated Current per Phase *	0.13	A
Coil independent parameters		
5 Holding Torque, MIN *	3.87 (0.55)	mNm (oz-in)
6 Detent Torque, Max	1.62 (0.23)	mNm (oz-in)
7 Rotor inertia	0.115 (0.00063)	(gcm <sup>2</sup> ) (oz-in-s <sup>2</sup> )
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 for 2 seconds	VAC
16 Weight	14 (0.5)	g (oz)
17 Leadwire	AWG 28, UL 1429	

All Motor Data Values at 20°C Unless Otherwise Specified

\* Energize at Rated Current, 2 Phase On

