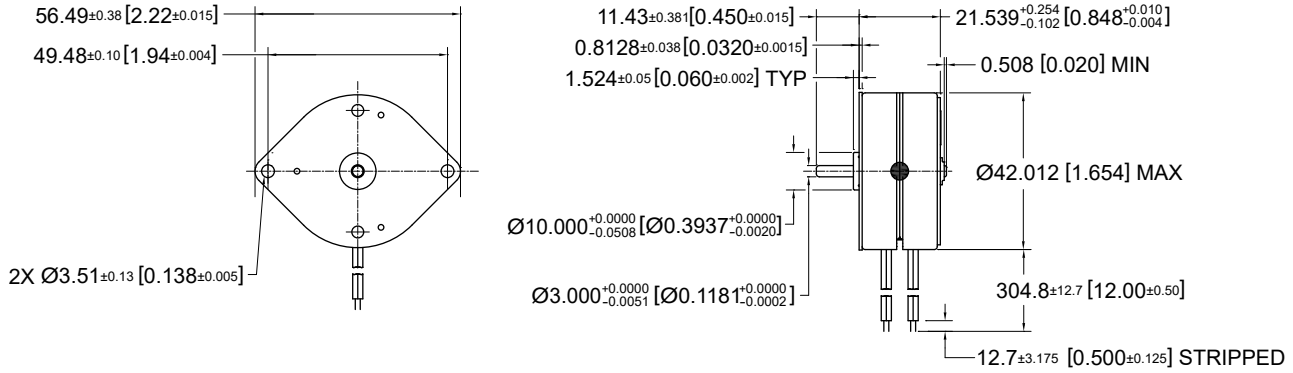


## 42M048D

Ø 42 mm • RoHS Compliant • 114.4 mNm



Dimensions in mm. [inches]

Electrical Data	42M048D••				Unit
	1U Unipolar	2U Unipolar	1B Bipolar	2B Bipolar	
1 Operating Voltage	5	12	5	12	VDC
2 Resistance per Phase, ± 10%	9.1	52.4	9.1	52.4	Ohms
3 Inductance per Phase, typ	6.5	42.6	14.1	69.3	mH
4 Rated Current per Phase *	0.55	0.23	0.55	0.23	A
<b>Coil Independent Parameters</b>					
5 Holding Torque, MIN *	101.7 (14.4)	101.7 (14.4)	114.4 (16.21)	114.4 (16.21)	mNm (oz-in)
6 Detent Torque, Max	29.66 (4.2)				mNm (oz-in)
7 Rotor Inertia	9.5 (0.05195)				gcm <sup>2</sup> (oz-in <sup>2</sup> )
8 Step Angle	7.5				Degree
9 Absolute accuracy 2 ph. On, Full step	± 0.5				Degree
10 Steps per Revolution	48.0				
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	100.0				Mohms
15 Dielectric Withstanding Voltage	650 VRMS for 2 seconds				VAC
16 Weight	144.58 (5.1)				g (oz)
17 Leadwire	AWG #26, UL1430 (105° C, 300 V)				

Note: All motor data values at 20° C unless otherwise specified

\* Energize at rated current, 2-Phase On

