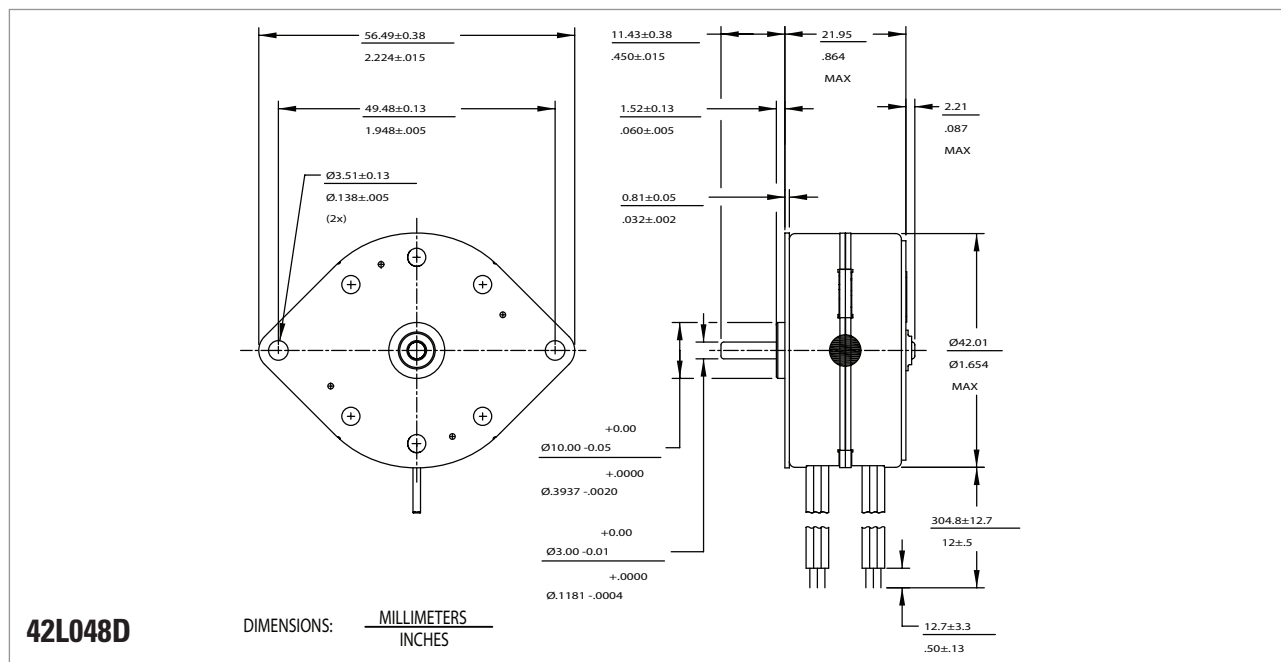


42L048D



Technical Specifications

Part Number		Unipolar		Bipolar	
		42L048D1U	42L048D2U	42L048D1B	42L048D2B
Rated voltage	(vdc)	5	12	5	12
Resistance per phase ± 10%	(ohms)	5.20	30.00	5.20	30.00
Inductance per phase, Typ	(mH)	2.10	11.30	4.10	22.30
Rated current per phase *	(amps)	0.96	0.40	0.96	0.40
Holding torque, min *	(oz-in / mNm)	15.1 / 106		18.5 / 131	
Step angle *	(degrees)	7.5 ± 0.5°			
Steps per revolution *		48			
Detent torque, max	(oz-in / mNm)	4.2 / 29.7			
Thermal resistance	(°C / watt)	N.A.			
Rotor moment of inertia	(oz-in-s ² / g-cm ²)	0.1066 / 19.5			
Ambient temperature range					
Operating	(°C)	-20 ~ +70			
Storage	(°C)	-40 ~ +85			
Bearing type			Sintered Bronze Sleeve		
Insulation resistance at 500vdc	(MΩ)	100			
Dielectric withstanding voltage	(vac)	650 for 2 seconds			
Weight	(lbs / g)	.2563 / 116.4			
Shaft load ratings, max at 1500 rpm					
Radial	(lbs / kg)	1.124 / 509			
Axial	(lbs / kg)	.337 / .153			
Leadwires			AWG 26, UL 1430		
Temperature class, max	(°C)	B(130°C)			
RoHS			Compliant		

All motor data values at 25 $^\circ\text{C}$ unless otherwise specified

* Energise at rated current, 2 phase on

