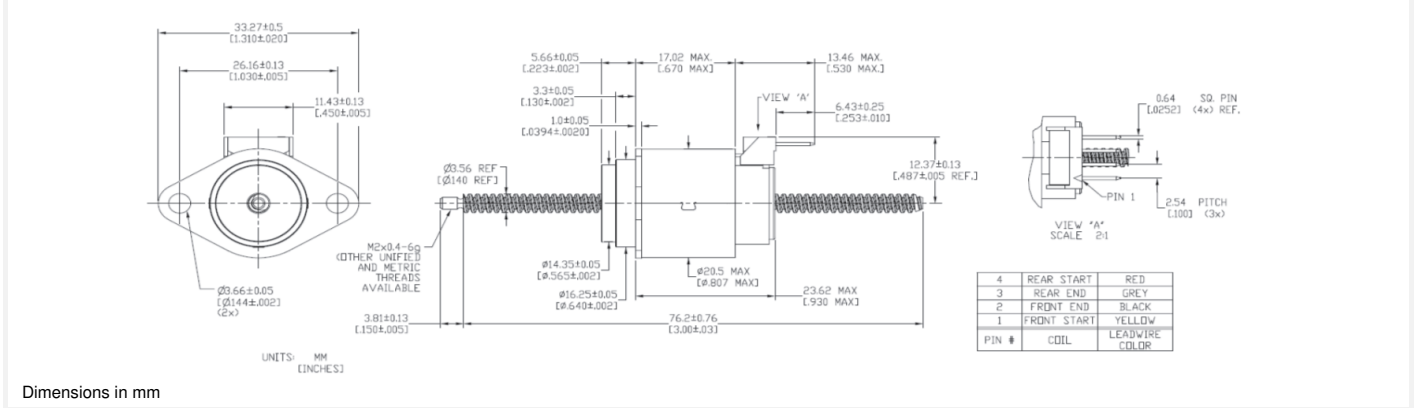


20DBM-L

RoHS Compliant

Ø20mm

50 N

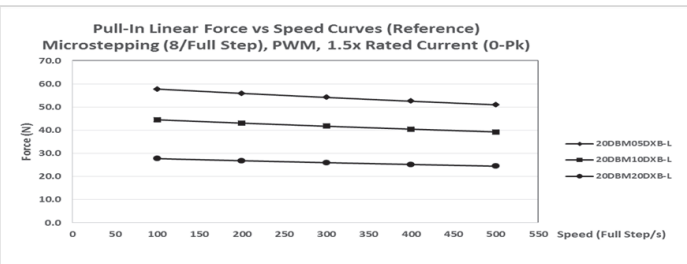
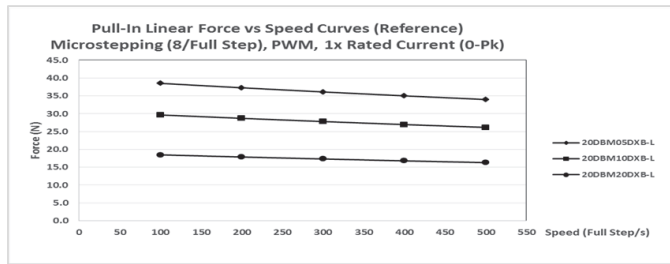
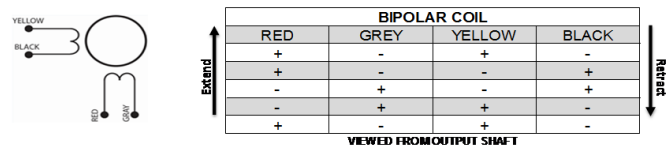


20DBM-L

Electrical Data	20DBMXXD2B-L	20DBMXXD1B-L	20DBMXXD3B-L	20DBMXXD4B-L	
	Bipolar	Bipolar	Bipolar	Bipolar	
1 Rated Voltage #	12	5	2.9	1.4	VDC
2 Resistance per Phase, ± 10%	100.5	17.5	5.7	1.4	Ohms
3 Inductance per Phase, ± 20%	45.0	7.0	2.4	0.6	mH
4 Rated Current per Phase *	0.12	0.29	0.50	1.00	A
5 Input Power *	2.9	2.9	2.9	2.9	W

Coil independent parameters			
6 Max. Holding Force*	@ .0005" (0.0127mm)	50 (180)	N (oz)
	@ .001" (0.0254mm)	35 (126)	N (oz)
	@ .002" (0.0508mm)	22 (79)	N (oz)
7 Min. Holding Force (Unenergized)	@ .0005" (0.0127mm)	55.6 (200)	N (oz)
	@ .001" (0.0254mm)	13.9 (50)	N (oz)
	@ .002" (0.0508mm)	5.5 (20)	N (oz)
8 Maximum travel		50 (1.97)	mm (in)
9 Step Angle		7.5 ± .5	Degree
10 Steps per Revolution		48	
11 Pullout Rate @ Rated Current		600	PPS
12 Rotor Inertia		1.53	g.cm ²
13 Natural Resonance Frequency @ Rated Current		170	Hz
14 Ambient Temperature Range (operating)		-20 to +70 (-4 to +158)	°C (°F)
15 Maximum Coil Temperature		130 (266)	°C (°F)
16 Bearing Type ##		Ball Bearing	
17 Insulation Resistance at 500 VDC		20	Mohms
18 Dielectric Withstanding Voltage		650 for 2 seconds	VAC
19 Weight		35 (1.23)	g (oz)

All Motor Data Values at 20°C Unless Otherwise Specified
 # Voltage in case of voltage driver (indicator of R*)
 * Energized at Rated Current, 2 Phase On
 ## Options: 8 mm, 10 mm OD available. Preload on request.



Curves created with a 5 Volt motor and a 24 Volt power supply.