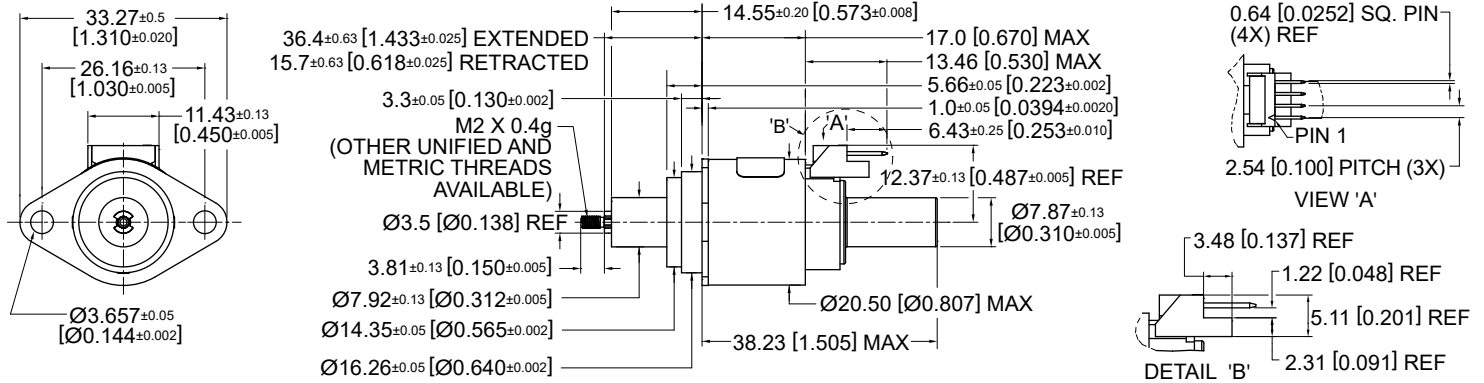


20DBM-K

Ø 20 mm • RoHS Compliant • 50 N

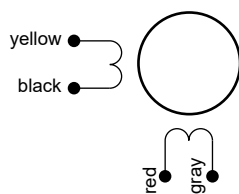


Dimensions in mm. [inches]

Electrical Data	20DBMXX●●●-K				Unit
	D2B Bipolar	D1B Bipolar	D3B Bipolar	D4B Bipolar	
1 Operating 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, typ	45.0	7.0	2.4	0.6	mH
4 Rated Current per Phase, 1 Phase ON	0.17	0.41	0.71	1.41	A
5 Input Power	2.9	2.9	2.9	2.9	W

General Data	XX	Linear travel per step		
6 Min. Holding Force @ rated current	05	@ .0005" (0.0127mm)	50 (180)	N (oz)
	10	@ .001" (0.0254mm)	35 (126)	N (oz)
	20	@ .002" (0.0508mm)	22 (79)	N (oz)
7 Min. Holding Force (Unenergized)	05	@ .0005" (0.0127mm)	50 (180)	N (oz)
	10	@ .001" (0.0254mm)	13.9 (50)	N (oz)
	20	@ .002" (0.0508mm)	5.5 (20)	N (oz)
8 Stroke Length, Typ			20 (0.79)	mm (in)
9 Linear Travel Accuracy			± 1 Step	
10 Steps per Revolution			48	
11 Ambient Temperature Range (operating)			-20 to +70 (-4 to +158)	°C (°F)
12 Maximum Coil Temperature			130 (266)	°C (°F)
13 Bearing Type			Ball Bearing	
14 Insulation Resistance at 500 VDC			20	Mohms
15 Dielectric Withstanding Voltage			650 for 2 seconds	VAC
16 Weight			35 (1.23)	g (oz)
17 Leadwire				

Notes: 1. All motor data values at 20° C unless otherwise specified – 2. # Voltage in case of voltage driver (indicator R•I)



BIPOLAR COIL

	RED	GRAY	YELLOW	BLACK	
Extend ↑	+	-	+	-	↓ Retract
	+	-	-	+	
	-	+	-	+	
	-	+	+	-	
	+	-	+	-	

VIEWED FROM OUTPUT SHAFT

PIN#	COIL	LEADWIRE
1	Front Start	Yellow
2	Front End	Black
3	Rear End	Gray
4	Rear Start	Red

