

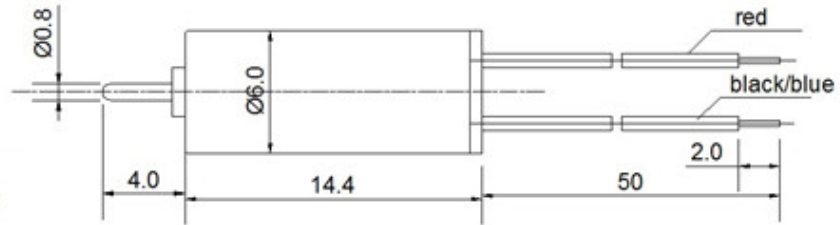
DC coreless motor 6mm / 直流空心杯馬達 6mm

Ø6mm, precious metal brushes/Ø6mm, 貴金屬電刷

Outline Drawing/外形圖



Widely used in model aircraft, electric toys, and medical devices/
廣泛用於航模, 電動玩具, 醫療器械



614 Series / 614系列

Model/型號	001	002	003	004	005	006	007
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Motor data (25°C)/ 運行參數 (25°C)

	Unit	001	002	003	004	005	006	007
1 Assigned power/標稱功率	W	0.2	0.1	0.7	0.9	0.8	0.5	0.8
2 Nominal voltage/額定電壓	Volt	1.5	3	3.7	3.7	3.7	3.7	4.5
3 Terminal resistance/端電阻	±15% Ohm	1.8	9.6	2.9	2.5	2.7	3.6	3.6
4 No-Load speed/空載轉速	±12% rpm	24,500	22,000	44,500	54,500	50,000	41,000	50,000
5 No-Load current/空載電流	≤150% mA	50	12	45	75	60	35	45
6 Speed constant/速度常數	rpm/V	16,333	7,333	12,027	14,730	13,514	11,081	11,111
7 Torque constant/轉矩常數	mNm/A	0.55	1.25	0.77	0.62	0.68	0.83	0.83
8 Starting current/啟動電流	mA	833	313	1,276	1,480	1,370	1,028	1,250
9 Stall torque/堵轉轉矩	mNm	0.46	0.39	0.98	0.91	0.93	0.86	1.04
12 Max. efficiency/最大效率	%	57	65	66	60	63	66	66

At max. efficiency/最大效率點

	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	185	60	230	325	285	185	240
2 Torque/轉矩	mNm	0.10	0.08	0.18	0.20	0.19	0.15	0.20
3 Speed/轉速	rpm	19,061	17,776	36,478	42,532	39,601	33,620	40,400
4 Power /功率	W	0.20	0.140	0.673	0.891	0.799	0.542	0.841

At max. output/最大輸出功率點

	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	440	165	660	780	720	530	650
2 Torque/轉矩	mNm	0.24	0.21	0.51	0.48	0.49	0.44	0.54
3 Speed/轉速	rpm	11,564	10,384	21,480	25,777	23,730	19,857	24,000
4 Power /功率	W	0.29	0.22	1.14	1.30	1.21	0.92	1.35

Additional information/其它相關信息

- Axial play/軸向間隙 0.05~0.30 mm
- Force for press-fits/最大允許安裝力
 - Radial /徑向 0.8N
 - Axial/軸向 9.8N
- Ambient temperature range/環境溫度範圍 -20~+65°C
- Max. rotor temperature/轉子承受最高溫度 +85°C
- Weight of motor/電機重量 1.8g
- Motor parameters can be made according to the request of customer/馬達參數可根據客人要求制作
- Options: Output shaft length, leadwire length, /其它可選項: 出力軸長, 引線長度,



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