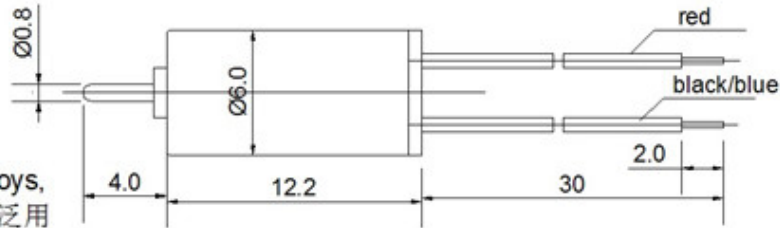


DC coreless motor 6mm / 直流空心杯馬達 6mm

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

Outline Drawing/外形圖



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

612 Series / 612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	0.1	0.2	0.5	0.3	0.2	0.1	0.5
2 Nominal voltage/額定電壓	Volt	1.2	1.5	3.7	3.7	3.7	3.7	4.5
3 Terminal resistance/端電阻	±15% Ohm	3.5	2.5	4.8	7.4	13.5	35	7.6
4 No-Load speed/空載轉速	±12% rpm	22,500	29,000	48,000	41,000	33,000	20,000	43,300
5 No-Load current/空載電流	≤150% mA	40	50	50	40	20	15	50
6 Speed constant/速度常數	rpm/V	18,750	19,333	12,973	11,081	8,919	5,405	9,622
7 Torque constant/轉矩常數	mNm/A	0.45	0.45	0.69	0.79	0.99	1.52	0.91
8 Starting current/啟動電流	mA	343	600	771	500	274	106	592
9 Stall torque/堵轉轉矩	mNm	0.15	0.27	0.53	0.40	0.27	0.16	0.54
12 Max. efficiency/最大效率	%	43	51	56	51	53	39	50

At max. efficiency/最大效率點

	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	110	170	190	140	65	35	165
2 Torque/轉矩	mNm	0.05	0.08	0.13	0.11	0.06	0.05	0.15
3 Speed/轉速	rpm	15,281	20,783	36,169	29,520	25,174	13,378	31,234
4 Power/功率	W	0.08	0.168	0.495	0.343	0.170	0.074	0.490

At max. output/最大輸出功率點

	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	190	330	410	270	145	60	320
2 Torque/轉矩	mNm	0.09	0.15	0.28	0.21	0.14	0.09	0.29
3 Speed/轉速	rpm	10,031	13,050	22,469	18,860	15,541	8,649	19,899
4 Power/功率	W	0.09	0.20	0.66	0.42	0.23	0.08	0.61

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 1.5g
- 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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