

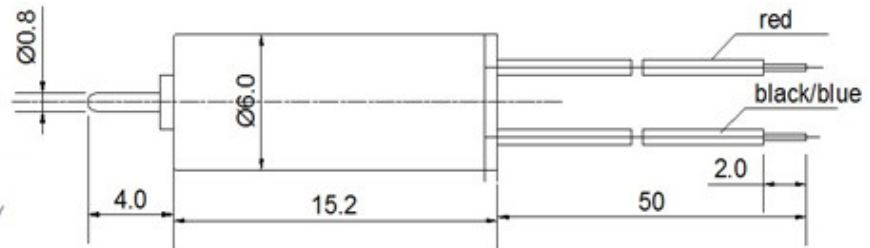
# DC coreless motor 6mm / 直流空心杯馬達 6mm

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



### 615 Series / 615系列

Model/型號 001 002 003 004 005 006 007

### Motor data (25°C) / 運行參數 (25°C)

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	0.3	0.5	0.3	0.4		
2 Nominal voltage/額定電壓	Volt	1.5	3.7	3.7	3.7	4.5		
3 Terminal resistance/端電阻	±15% Ohm	1.9	8	5	9.3	9.3		
4 No-Load speed/空載轉速	±12% rpm	22,500	37,200	45,700	32,300	39,500		
5 No-Load current/空載電流	≤150% mA	50	25	40	25	35		
6 Speed constant/速度常數	rpm/V	15,000	10,054	12,351	8,730	8,778		
7 Torque constant/轉矩常數	mNm/A	0.60	0.90	0.73	1.03	1.01		
8 Starting current/啟動電流	mA	789	463	740	398	484		
9 Stall torque/堵轉轉矩	mNm	0.47	0.42	0.54	0.41	0.49		
12 Max. efficiency/最大效率	%	56	59	59	56	53		

### At max. efficiency/最大效率點

At max. efficiency/最大效率點	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	200	110	168	95	120		
2 Torque/轉矩	mNm	0.12	0.10	0.12	0.10	0.12		
3 Speed/轉速	rpm	16,800	28,352	35,325	24,587	29,704		
4 Power/功率	W	0.21	0.293	0.455	0.251	0.377		

### At max. output/最大輸出功率點

At max. output/最大輸出功率點	Unit	001	002	003	004	005	006	007
1 Current/電流	mA	420	248	390	210	260		
2 Torque/轉矩	mNm	0.25	0.22	0.29	0.22	0.26		
3 Speed/轉速	rpm	10,530	17,253	21,615	15,251	18,275		
4 Power/功率	W	0.28	0.40	0.65	0.34	0.50		

### 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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