

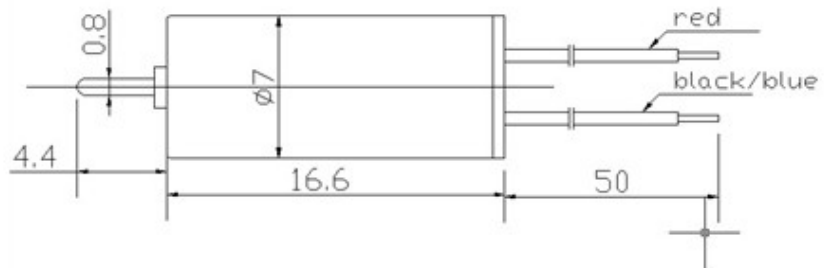
DC coreless motor 7mm / 直流空心杯馬達 7mm

Ø7mm, precious metal brushes/Ø7mm, 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



716 Series / 716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)

1 Assigned power/標稱功率	W	1.5	1.3	1.3	1.3	1.5	0.9	1.3
2 Nominal voltage/額定電壓	Volt	3.7	3.7	3.7	3.7	3.7	3.7	4.5
3 Terminal resistance/端電阻	±15% Ohm	1.2	1.7	1.6	1.9	1.2	2.4	2.4
4 No-Load speed/空載轉速	±12% rpm	50,600	48,000	47,100	44,000	50,600	40,000	48,000
5 No-Load current/空載電流	≤150% mA	80	110	95	80	80	60	80
6 Speed constant/速度常數	rpm/V	13,676	12,973	12,730	11,892	13,676	10,811	10,667
7 Torque constant/轉矩常數	mNm/A	0.68	0.70	0.72	0.77	0.68	0.85	0.86
8 Starting current/啟動電流	mA	3,083	2,176	2,313	1,947	3,083	1,542	1,875
9 Stall torque/堵轉轉矩	mNm	2.10	1.52	1.66	1.50	2.10	1.31	1.61
12 Max. efficiency/最大效率	%	70	60	64	64	70	64	63

At max. efficiency/最大效率點

1 Current/電流	mA	490	495	470	490	503	300	380
2 Torque/轉矩	mNm	0.33	0.35	0.34	0.38	0.34	0.25	0.33
3 Speed/轉速	rpm	42,559	37,083	37,527	32,929	42,345	32,216	38,272
4 Power/功率	W	1.49	1.343	1.329	1.301	1.517	0.859	1.305

At max. output/最大輸出功率點

1 Current/電流	mA	1,540	1,200	1,250	1,040	1,544	820	1,000
2 Torque/轉矩	mNm	1.05	0.84	0.90	0.80	1.05	0.70	0.86
3 Speed/轉速	rpm	25,327	21,535	21,641	20,502	25,262	18,724	22,400
4 Power/功率	W	2.78	1.89	2.04	1.72	2.78	1.36	2.01

Additional information/其它相關信息

- Axial play/軸向間隙 0.05~0.35 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 2.5g
- 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,



Z. X. D. TECHNOLOGY CO., LTD

Add: Shuibian Industrial Area, Hengli Town, Dongguan City, China
 Tel: 86-769-82927257, ext: 611, 613 Fax: 86-769-82927259
 Website: <http://www.zxd-motor.com> Email: jeff@zxd-motor.com