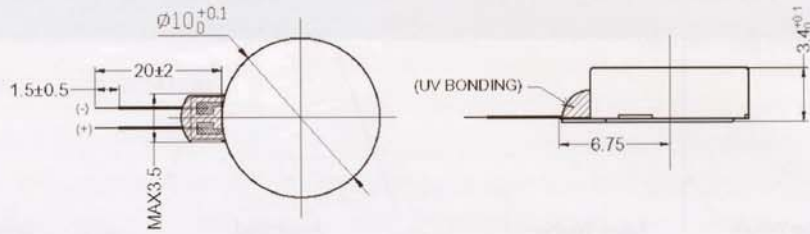
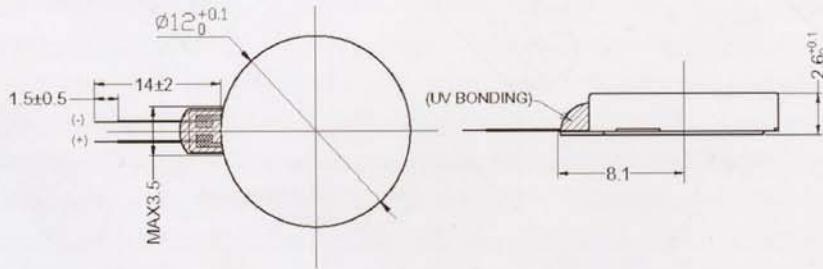
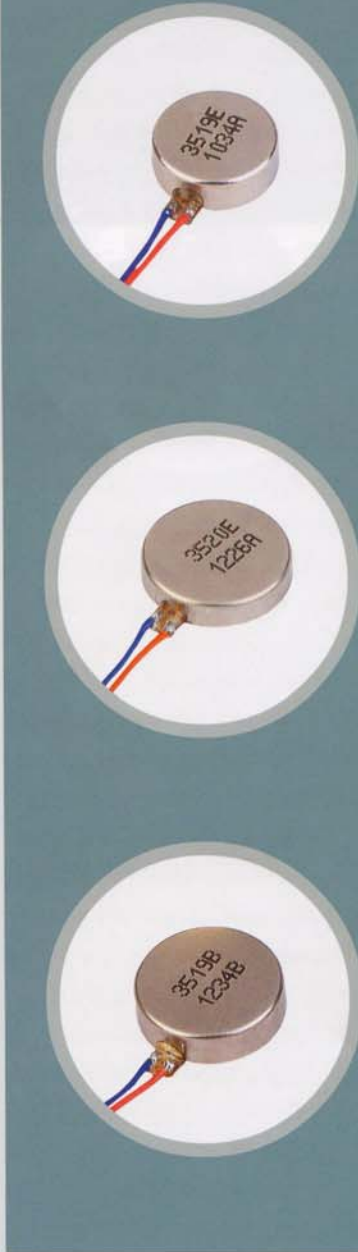
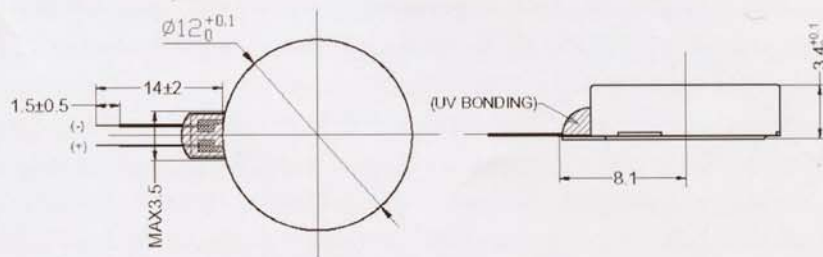


扁平馬達

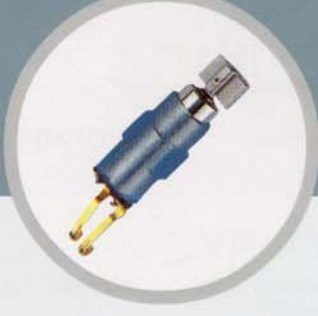
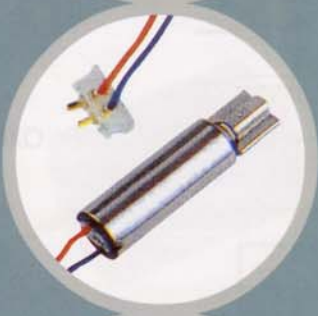
Coin Motor

馬達性能指標 Motor performance index

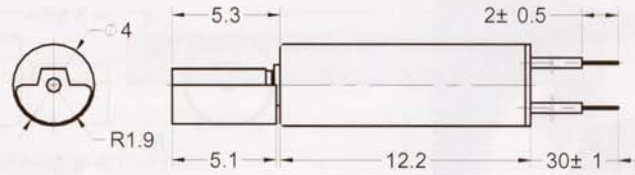
1034A

1226A/B

1234B/C


型號 Model	啓動電壓 Starting Voltage	額定電壓 Rated voltage	使用電壓範圍 Operating voltage	額定電流 Rated current	回轉數 Rotary Speed	重量 Weight	振動量 Vibrational Quantity
	V(DC)	V(DC)	V(DC)	mA	rpm	g	G/75g jig
1226A	≤ 2.3V	3	2.5~3.5	≤ 80	12000 ± 3000	1.21	1.0
1226B	≤ 1.0V	1.3	1.0~1.7	≤ 80	11000 ± 2000	1.18	1.0
1234B	≤ 2.3V	3	2.5~3.5	≤ 80	11000 ± 2000	1.45	1.3
1234C	≤ 1.0V	1.3	1.0~1.7	≤ 80	11000 ± 2000	1.44	1.0
1034A	≤ 2.3V	3	2.5~3.5	≤ 80	12000 ± 3000	1.10	0.9

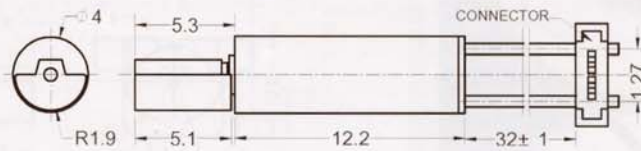
馬達技術參數 Motor technical parameter



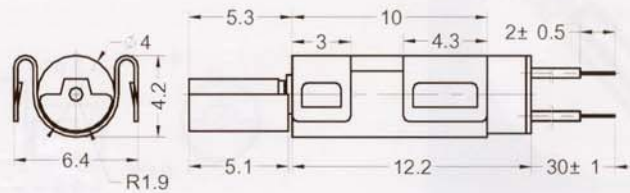
Ø 4mm ITEM NO:QX-4A



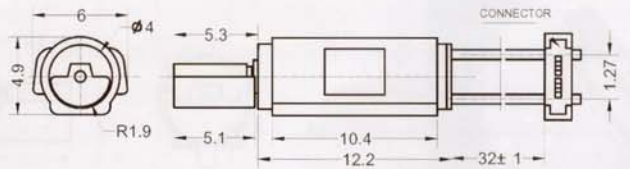
QX4A



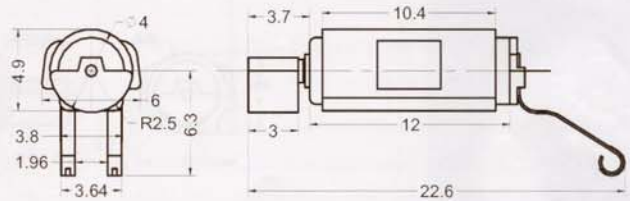
QX4A-C



QX4A-J



QX4A-C-H

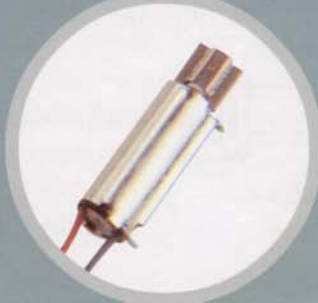


QX4A02-H

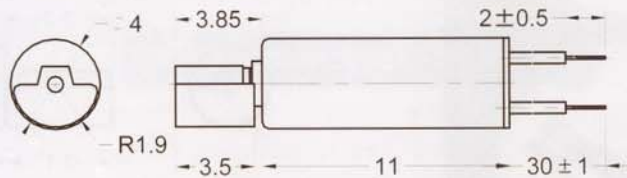
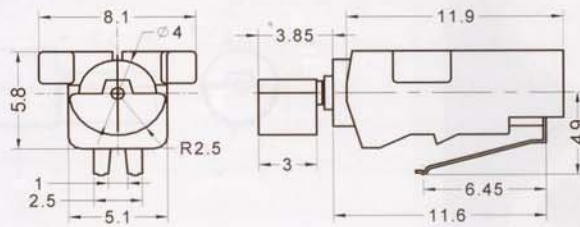
型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
QX4A Series	1.3	0.9~1.6	80Max	10500 ±2500	0.9Max	120Max	14	0.1~0.2	1.2
	3	2.0~3.6	80Max	10500 ±2500	2.0Max	100Max	37	0.1~0.2	1.2

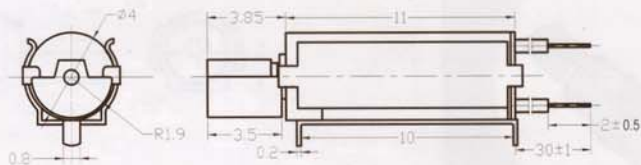
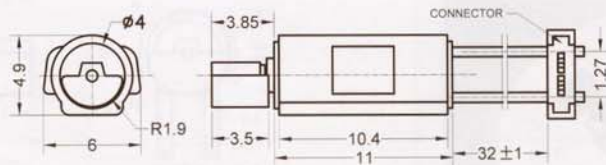
■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定



Ø4mm ITEM NO:QX-4B

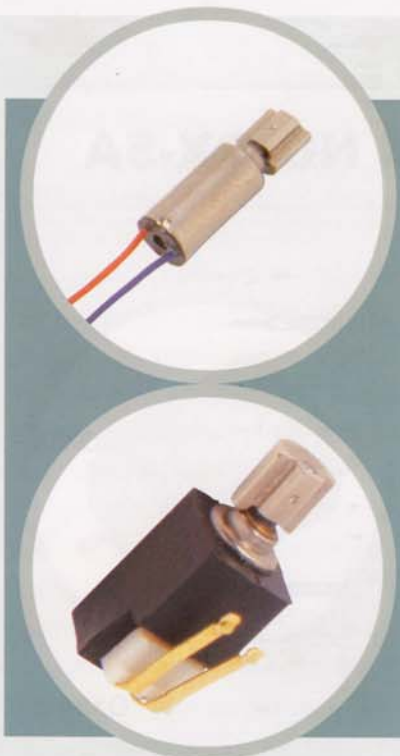

QX4B

QX4B01-H

QX4B-C

QX4B-J

QX4B-C-H

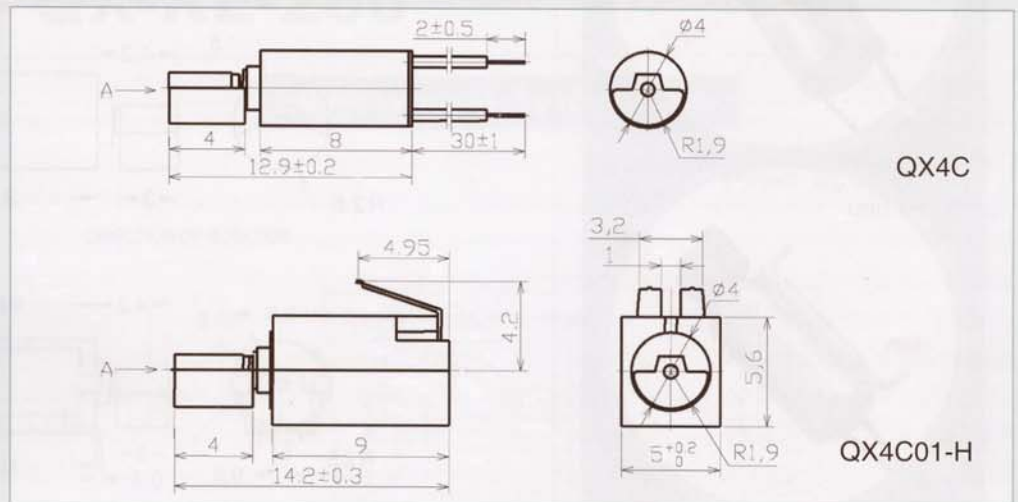
型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
QX4B Series	1.3	1.0~1.6	80Max	10500 ±2500	1.0Max	120Max	12	0.1~0.2	1.1
	3	2.0~3.6	80Max	11500 ±2500	2.0Max	100Max	34	0.1~0.2	1.1

■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定



Ø4mm ITEM NO:QX-4C



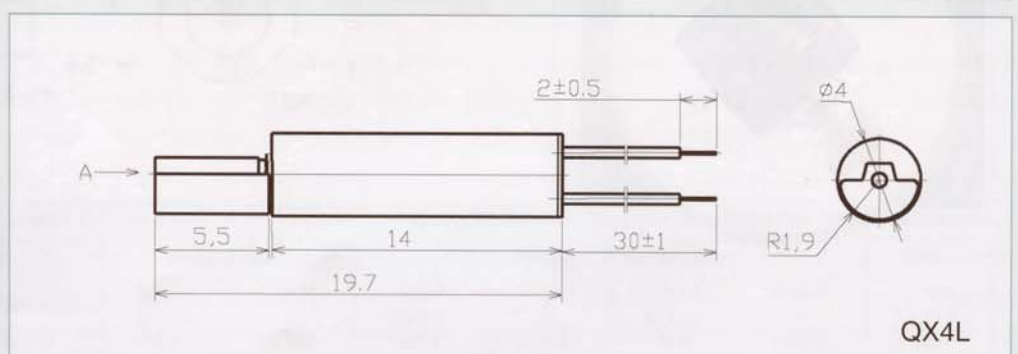
型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
4C 系列 4C Series	1.5	1.2~1.8	140Max	13000±3000	1.0Max	170Max	10	0.1~0.2	1.1
	3	2.0~3.6	120Max	13000±3000	2.0Max	135Max	25	0.1~0.2	1.1

■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定



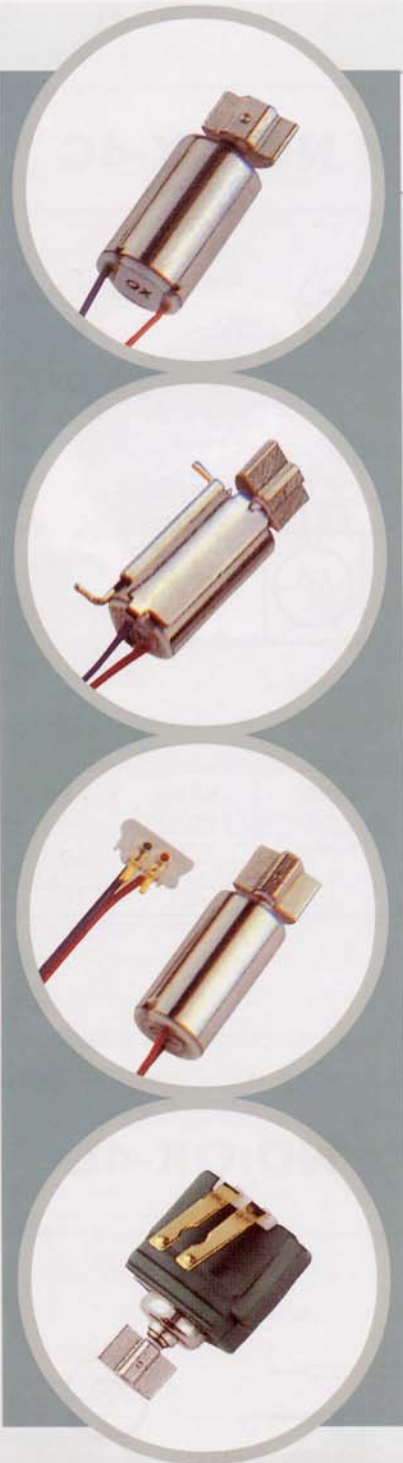
Ø4mm ITEM NO:QX-4L



型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
4L 系列 4L Series	1.3	0.9~1.6	80Max	10500 ±2500	0.85Max	120Max	14	0.1~0.2	1.3
	3	2.0~3.6	80Max	10500 ±2500	2.0Max	100Max	37	0.1~0.2	1.3

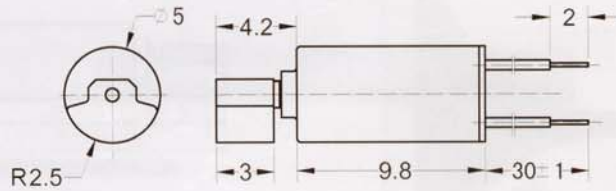
■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定

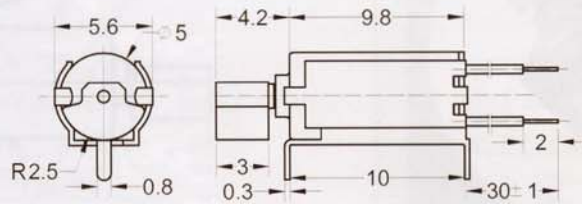


Ø 5mm

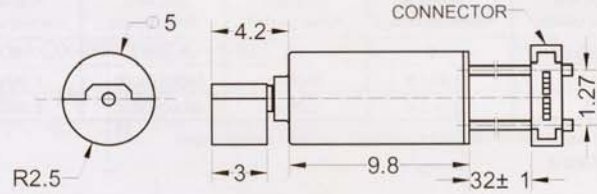
ITEM NO:QX-5A



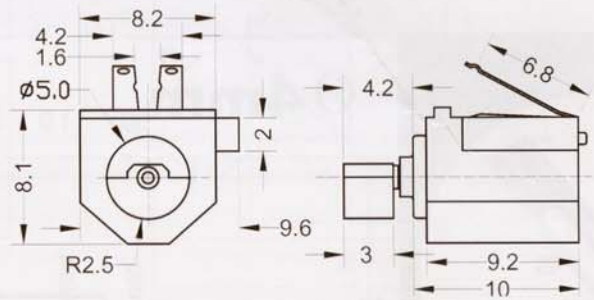
QX5A



QX5A-J



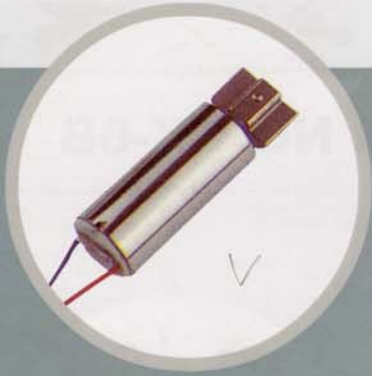
QX5A-C



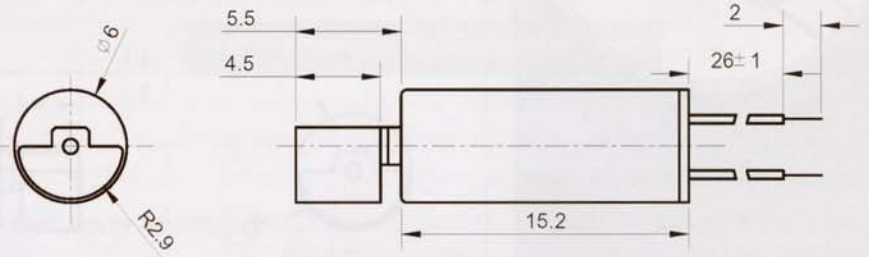
QX501-H

型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
Φ 5 Series	1.3	0.9~1.6	80Max	10000 ±2000	0.85Max	120Max	12	0.1~0.3	1.7

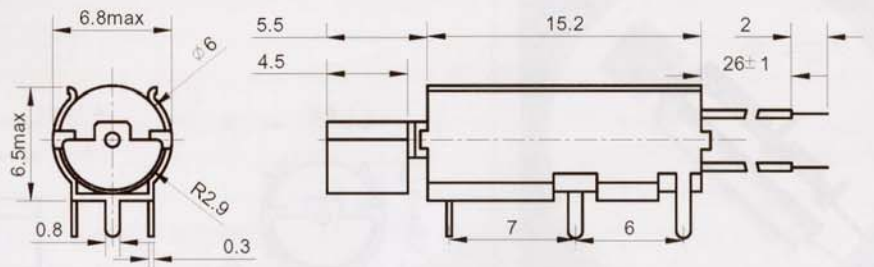
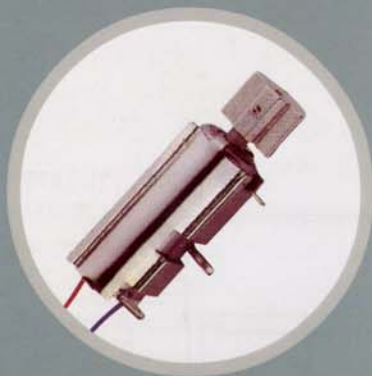
■ Specification of vibrator and holder can be designed according to customer's requirements
 振子規格和支架座可按顧客要求設定



Ø 6mm ITEM NO: QX-6A



QX6A



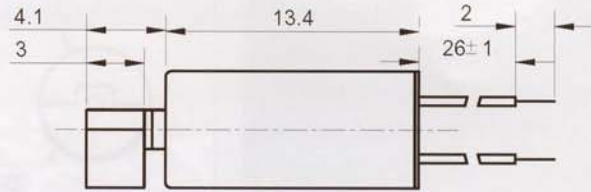
QX6A-1

型號 Model	額定電壓	電壓範圍	額定電流	額定轉速	起動電壓	堵轉電流	電樞電阻	軸向間隙	重量(約)
	Rated voltage	Operating voltage	Rated current	Rated Speed	Starting Voltage	stall Current	Terminal Resistance	End play of Shaft	Weight(approx)
6A Series	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
	1.3	0.9~1.6	80Max	9000 ±2000	0.8Max	155Max	9.2	0.1~0.2	3.3
	3	2.0~3.6	85Max	9500 ±2000	1.4Max	160Max	18	0.1~0.2	3.3

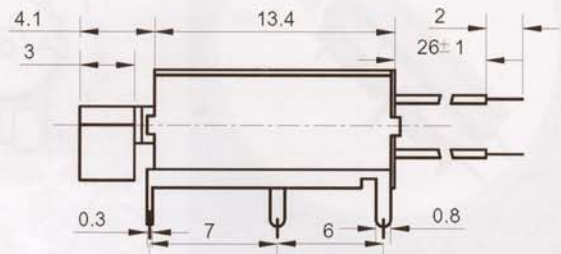
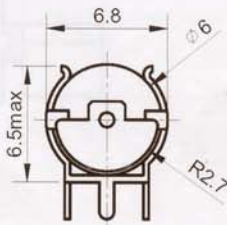
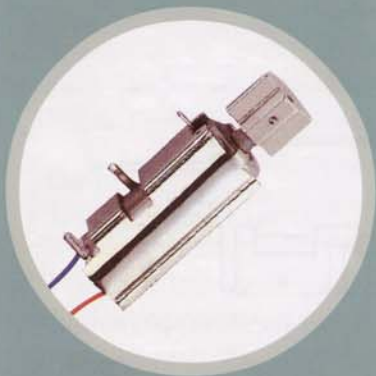
Specification of vibrator and holder can be designed according to customer's requirements
 振子規格和支架座可按顧客要求設定



Ø 6mm ITEM NO:QX-6B



QX6B

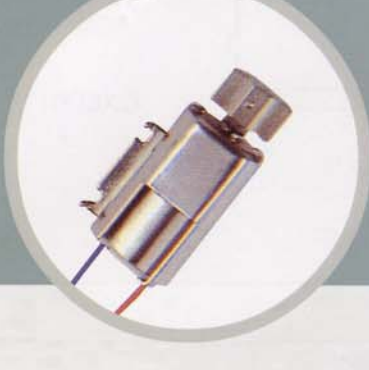


QX6B-J

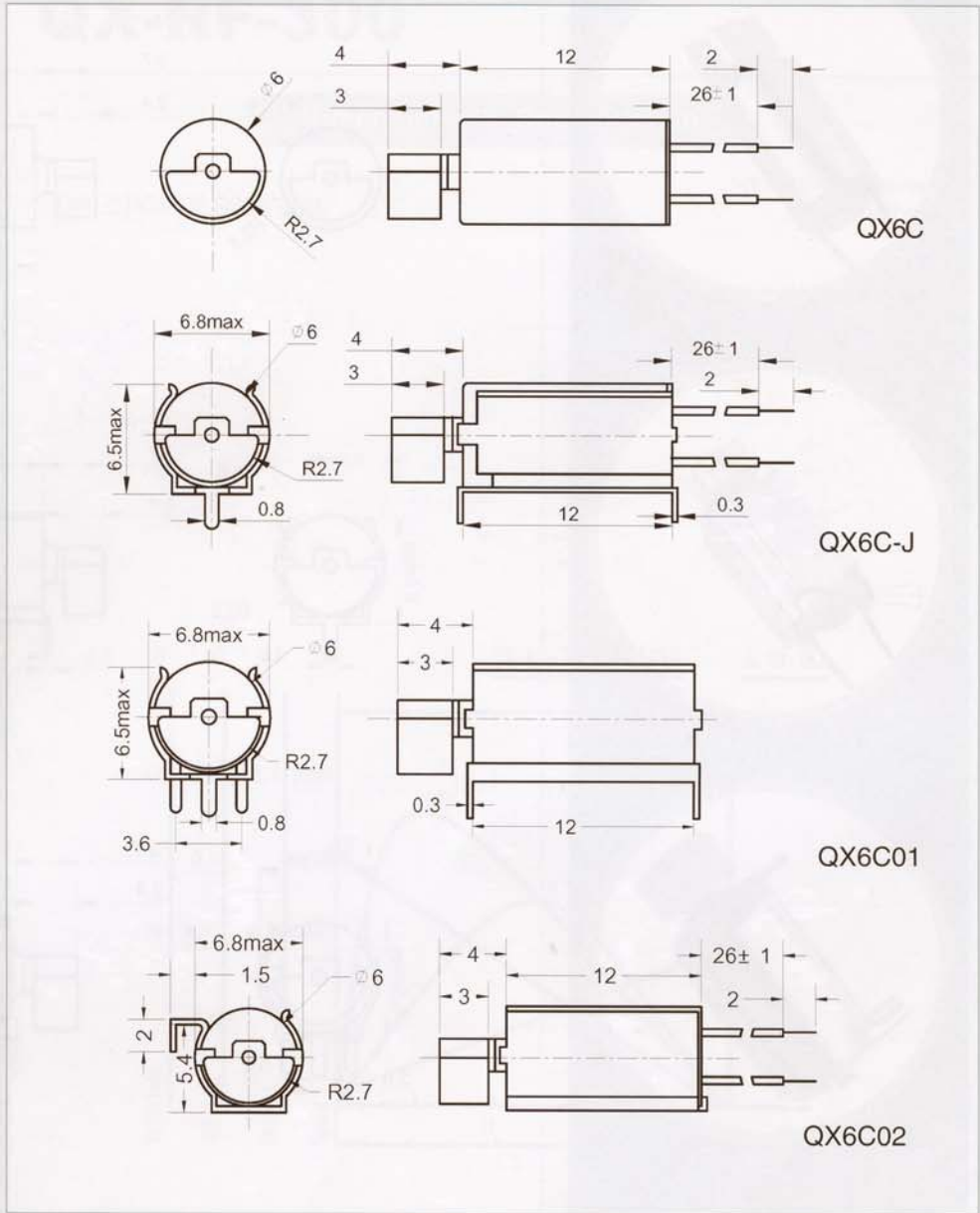
型號 Model	額定電壓	電壓範圍	額定電流	額定轉速	起動電壓	堵轉電流	電樞電阻	軸向間隙	重量 (約)
	Rated voltage	Operating voltage	Rated current	Rated Speed	Starting Voltage	stall Current	Terminal Resistance	End play of Shaft	Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
6B Series	1.3	0.9~1.6	80Max	8500 ±2000	0.8Max	150Max	10.0	0.1~0.2	2.6
	3	2.0~3.6	85Max	9500 ±2000	1.4Max	150Max	24.0	0.1~0.2	2.6

Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定



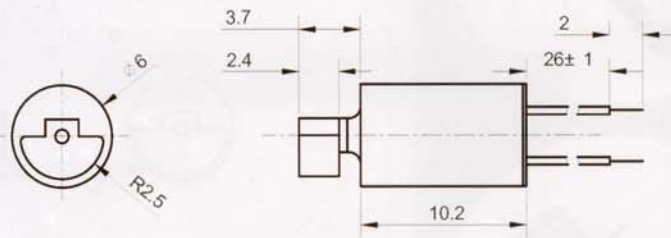
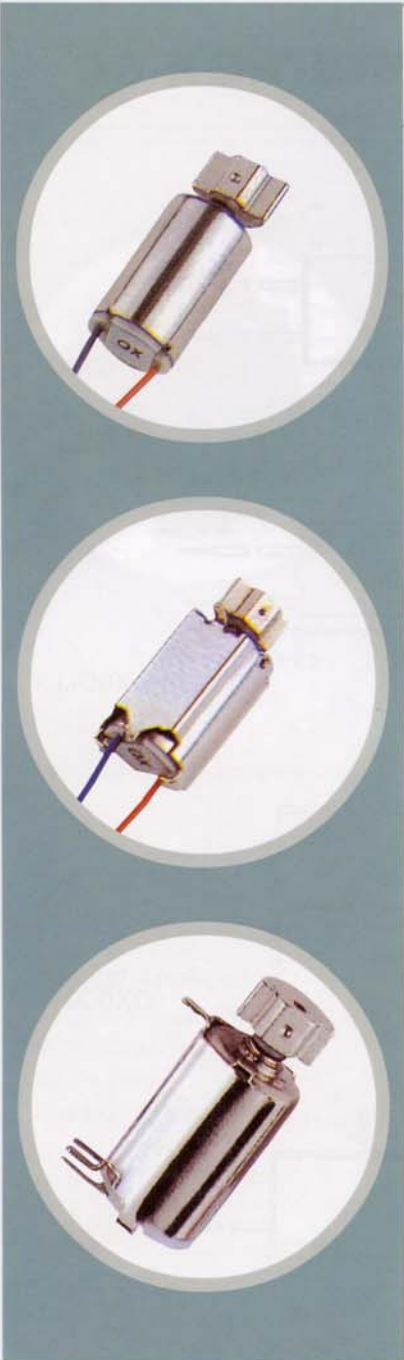
Ø 6mm ITEM NO:QX-6C



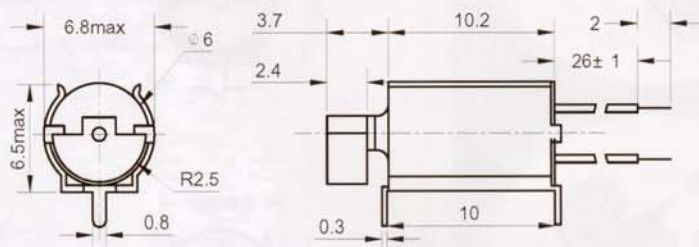
型號 Model	額定電壓	電壓範圍	額定電流	額定轉速	起動電壓	堵轉電流	電樞電阻	軸向間隙	重量 (約)
	Rated voltage	Operating voltage	Rated current	Rated Speed	Starting Voltage	stall Current	Terminal Resistance	End play of Shaft	Weight(approx)
QX6C Series	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
		1.3	0.9~1.6	75Max	10000 ±2500	0.85Max	150Max	10.0	0.1~0.2
	3	2.0~3.6	80Max	10000 ±2500	1.4Max	150Max	24.0	0.1~0.2	2.4

■ Specification of vibrator and holder can be designed according to customer's requirements
 振子規格和支架座可按顧客要求設定

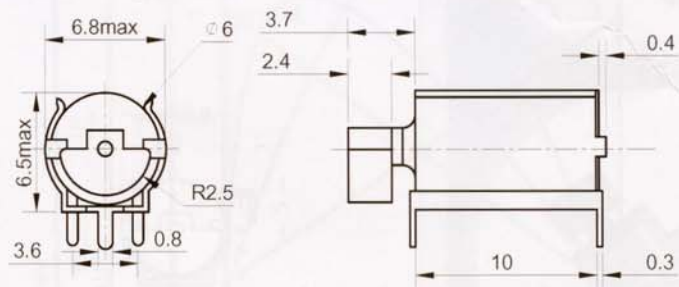
Ø 6mm ITEM NO:QX-6D



QX6D



QX6D-J



QX6D01

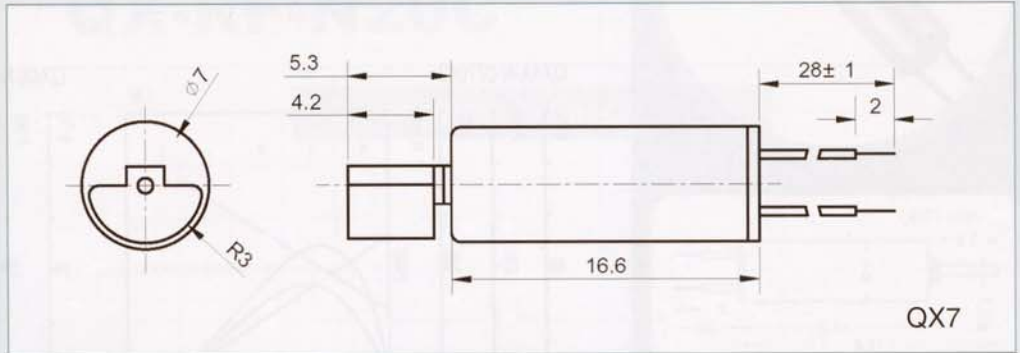
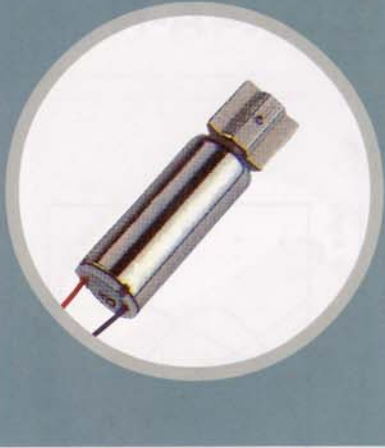
型號 Model	額定電壓	電壓範圍	額定電流	額定轉速	起動電壓	堵轉電流	電樞電阻	軸向間隙	重量(約)
	Rated voltage V	Operating voltage V	Rated current mA	Rated Speed rpm	Starting Voltage V	stall Current mA	Terminal Resistance Ω (approx)	End play of Shaft mm	Weight(approx) g
QX6D Series	1.3	0.9~1.6	75Max	11000 ±2500	0.85Max	140Max	10.5	0.1~0.2	2
	3	2.0~3.6	85Max	16000 ±2000	1.4Max	135Max	24.0	0.1~0.2	2

■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架座可按顧客要求設定

Ø7mm

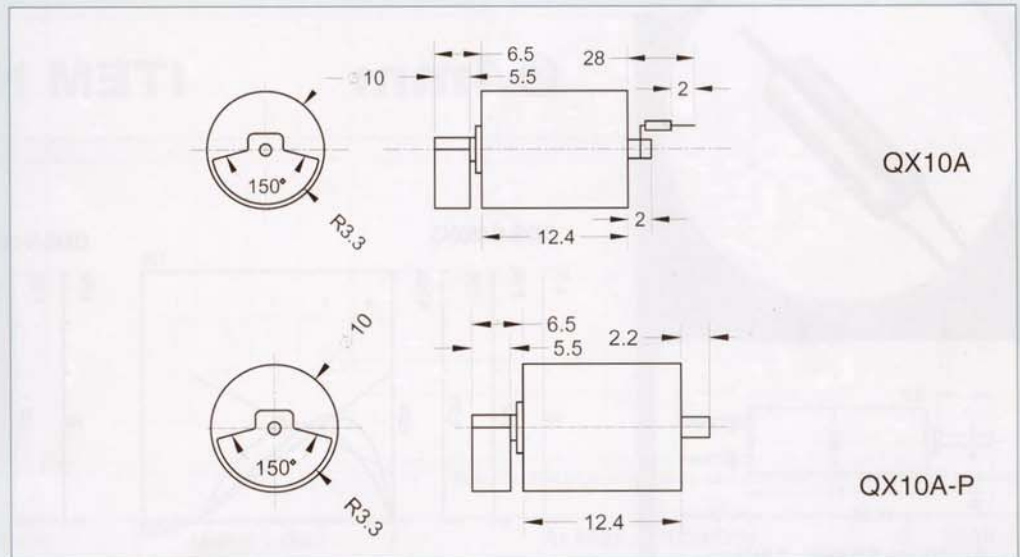
ITEM NO:QX-7



型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
7 Series	1.3	0.9~1.6	75Max	6000 ±1000	0.75Max	140Max	10.6	0.1~0.2	4
	3	2.0~3.6	85Max	8000 ±1000	1.4Max	140Max	22.0	0.1~0.2	4

Ø10mm

ITEM NO:QX-10A



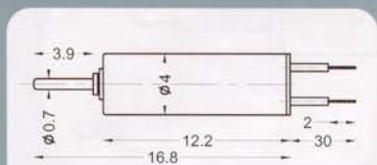
型號 Model	額定電壓 Rated voltage	電壓範圍 Operating voltage	額定電流 Rated current	額定轉速 Rated Speed	起動電壓 Starting Voltage	堵轉電流 stall Current	電樞電阻 Terminal Resistance	軸向間隙 End play of Shaft	重量(約) Weight(approx)
	V	V	mA	rpm	V	mA	Ω (approx)	mm	g
QX10 Series	1.3	0.9~1.6	100Max	5000±1000	0.7Max	165Max	9.2	0.1~0.2	5.4
	3	2.0~3.6	80Max	5000±1000	1.0Max	177Max	18.2	0.1~0.2	5.4
10A-P	1.5	0.9~1.6	100Max	6500±1000	0.5Max	300Max	6.2	0.1~0.2	5.4

■ Specification of vibrator and holder can be designed according to customer's requirements

振子規格和支架產可按顧客要求設定

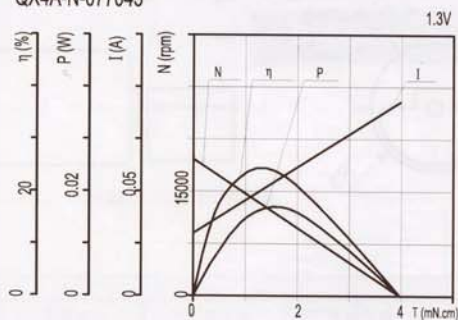


Ø4mm ITEM NO:QX4A-N

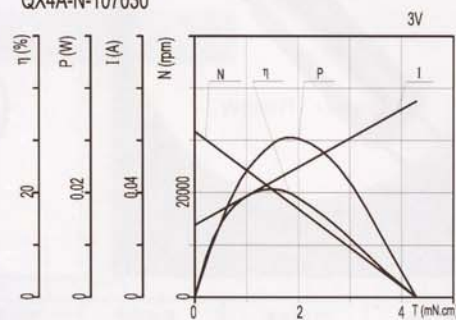


單位UNIT: mm 重量 Weight: 0.7g (approx)

QX4A-N-077043



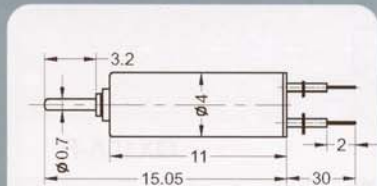
QX4A-N-107030



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX4A-N-077043	1~1.9	1.3	19600	0.030	0.051	13100	1.30	0.016	0.017	0.055	11600	4.0	0.093
QX4A-N-107030	2~4	3	30800	0.029	0.044	20700	1.5	0.029	0.031	0.05	18000	4.2	0.075

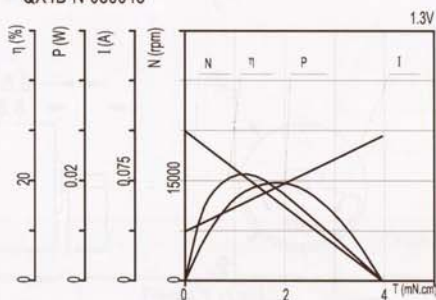


Ø4mm ITEM NO:QX4B-N

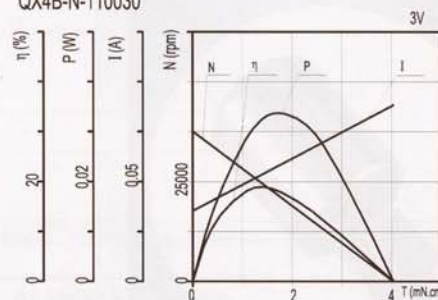


單位UNIT: mm 重量 Weight: 0.6g (approx)

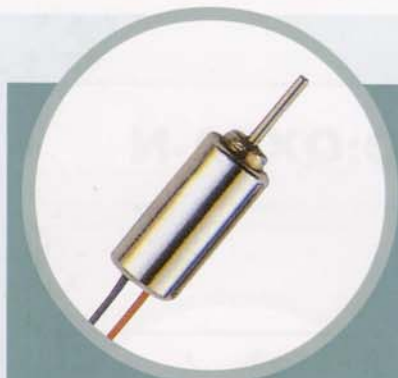
QX4B-N-080043



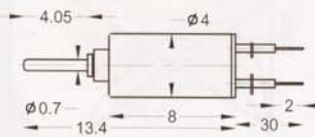
QX4B-N-110030



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX4B-N-080043	1~1.9	1.3	22000	0.037	0.059	15400	1.20	0.018	0.019	0.071	11700	3.9	0.106
QX4B-N-110030	2~4	3	37500	0.035	0.053	25000	1.40	0.030	0.034	0.057	21000	4.0	0.088

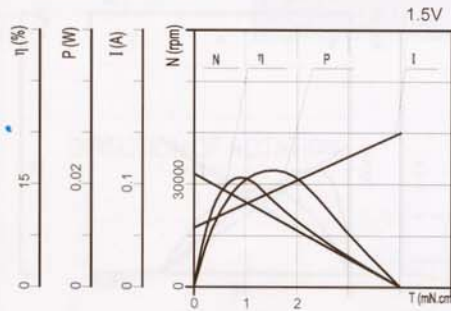


Ø4mm ITEM NO:QX4C-N

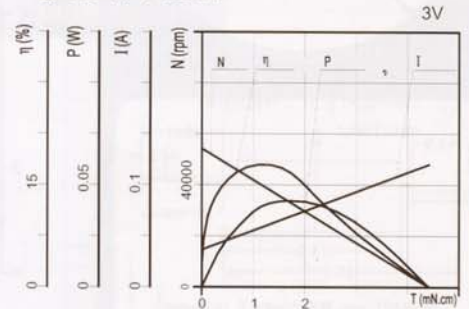


單位UNIT: mm 重量Weight: 0.6g(approx)

QX4C-N-080043



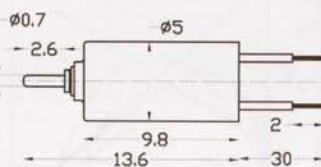
QX4C-N-110030



型號 Model	電壓 Voltage		空載 Free Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal (V)	速度 Speed (r/min)	電流 Current (A)	電流 Current (A)	速度 Speed (r/min)	轉矩 Torque (mN.cm)	出力 Output (W)	出力 Output (W)	電流 Current (A)	速度 Speed (r/min)	轉矩 Torque (mN.cm)	電流 Current (A)
QX4C-N-080043	1~1.9	1.5	33000	0.057	0.08	25500	0.9	0.02	0.021	0.096	20000	4.0	0.15
QX4C-N-110030	2~3.5	3	54000	0.035	0.06	40000	1.2	0.04	0.042	0.07	32300	4.2	0.118

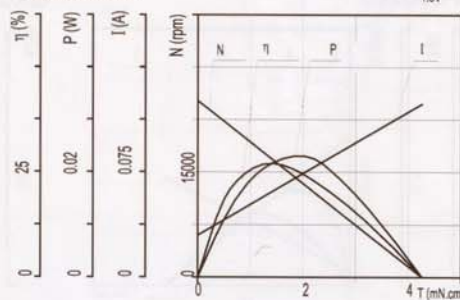


Ø5mm ITEM NO:QX5-N

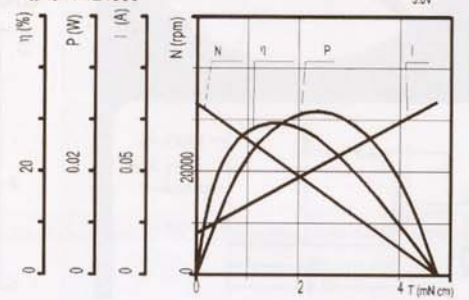


單位UNIT: mm 重量Weight: 0.7g(approx)

QX5-N-093045



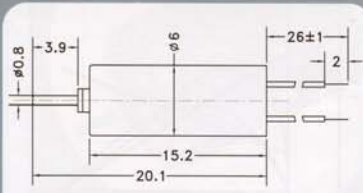
QX5-N-124030



型號 Model	電壓 Voltage		空載 Free Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal (V)	速度 Speed (r/min)	電流 Current (A)	電流 Current (A)	速度 Speed (r/min)	轉矩 Torque (mN.cm)	出力 Output (W)	出力 Output (W)	電流 Current (A)	速度 Speed (r/min)	轉矩 Torque (mN.cm)	電流 Current (A)
QX5-N-093045	1~2	1.5	23000	0.025	0.055	14950	1.50	0.024	0.026	0.07	11500	4.3	0.110
QX5-N-124030	2~4	3	32500	0.024	0.040	21500	1.65	0.036	0.040	0.05	16250	4.7	0.075

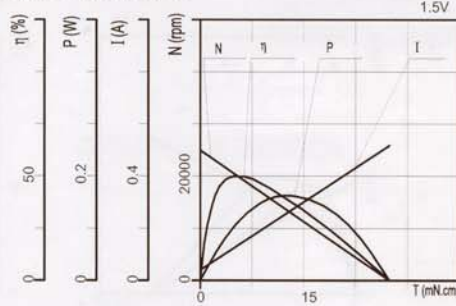


Ø6mm ITEM NO:QX6A-N

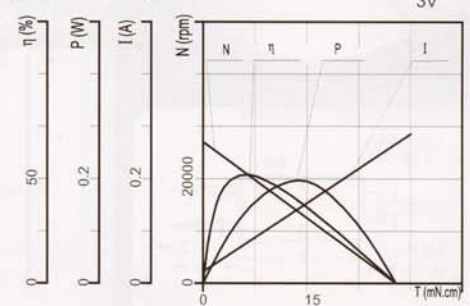


單位UNIT: mm 重量Weight: 2.1g (approx)

QX6A-N-040260



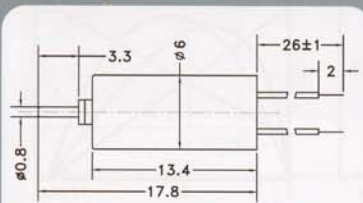
QX6A-N-075060



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX6A-N-040260	1~2	1.5	24950	0.04	0.14	19830	5.6	0.105	0.16	0.26	13700	27.4	0.517
QX6A-N-075060	2~3.5	3	27000	0.022	0.091	19930	6.5	0.142	0.197	0.172	11590	27.9	0.285
QX6A-N-108050	3~5	4.5	29300	0.017	0.058	23010	6.1	0.15	0.23	0.123	13480	28.3	0.21

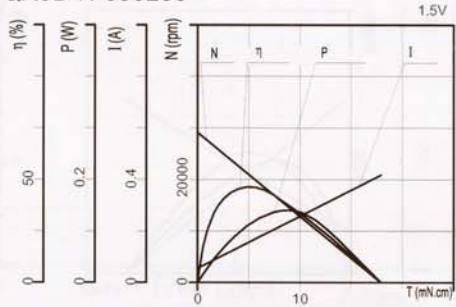


Ø6mm ITEM NO:QX6B-N

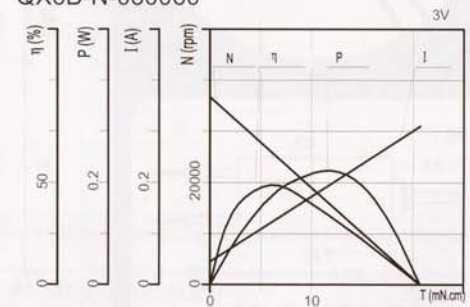


單位UNIT: mm 重量Weight: 1.9g (approx)

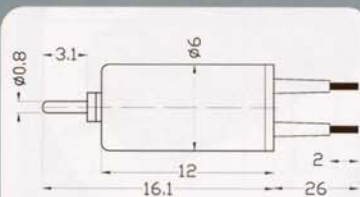
QX6B-N-050260



QX6B-N-080060

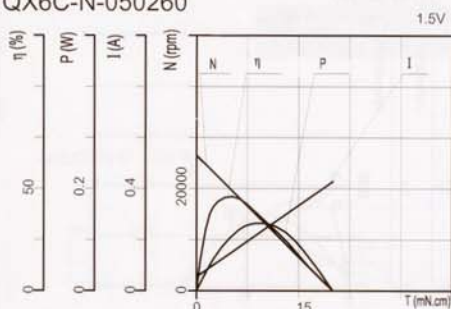
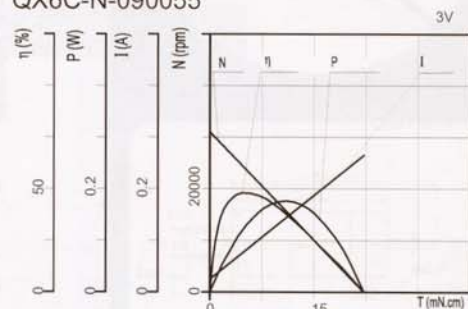


型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX6B-N-050260	1~2	1.5	29100	0.055	0.155	21100	4.9	0.11	0.135	0.24	14740	17.9	0.418
QX6B-N-080060	2~3.5	3	36700	0.045	0.12	25920	6.1	0.175	0.224	0.194	16110	20.7	0.31
QX6B-N-120050	3~5	4.5	36780	0.03	0.086	25910	6.6	0.191	0.24	0.13	17550	22.3	0.221

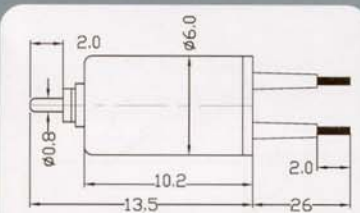
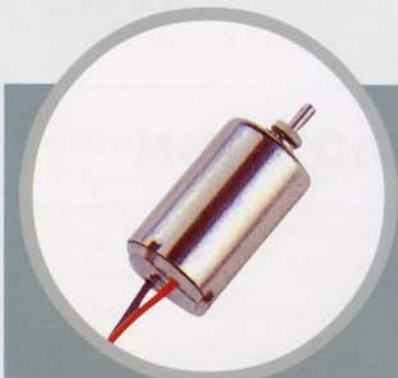


單位UNIT: mm 重量Weight: 1.9g (approx)

Ø6mm ITEM NO: QX6C-N

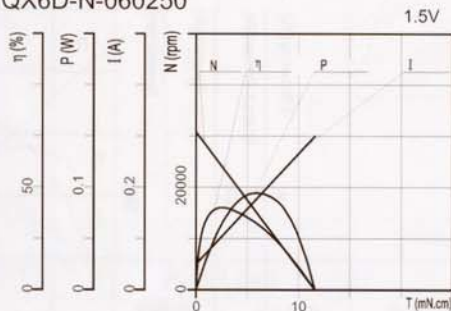
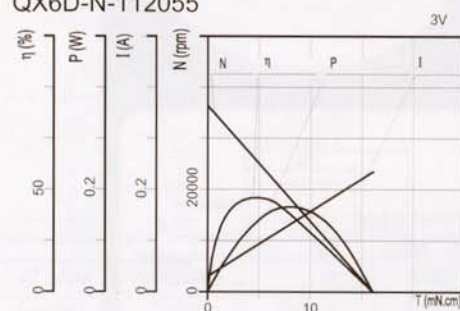
QX6C-N-050260

QX6C-N-090055


型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX6C-N-050260	1~1.9	1.5	26500	0.055	0.149	19850	5.0	0.105	0.13	0.23	14350	20	0.428
QX6C-N-090055	2~3.5	3	31000	0.025	0.08	24150	4.9	0.117	0.176	0.143	15700	22.2	0.265
QX6C-N-145045	3~5	4.5	30300	0.017	0.055	23000	5.5	0.125	0.183	0.096	15780	24.8	0.187



單位UNIT: mm 重量Weight: 1.5g (approx)

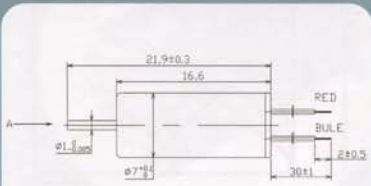
Ø6mm ITEM NO: QX6D-N

QX6D-N-060250

QX6D-N-112055


型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX6D-N-060250	1~2	1.5	30800	0.05	0.103	24230	2.5	0.064	0.095	0.175	15360	11.6	0.3
QX6D-N-112055	2~3.5	3	36400	0.03	0.09	25770	4.7	0.13	0.166	0.133	18140	16.1	0.235
QX6D-N-165045	3~5	4.5	38100	0.019	0.06	28200	4.5	0.121	0.177	0.099	18400	17.4	0.173

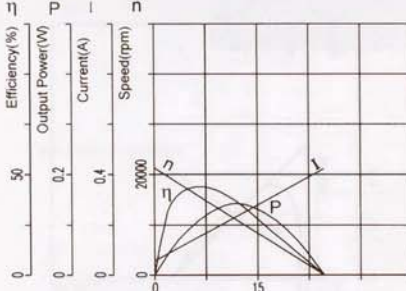
Ø7mm

ITEM NO:QX7A-N

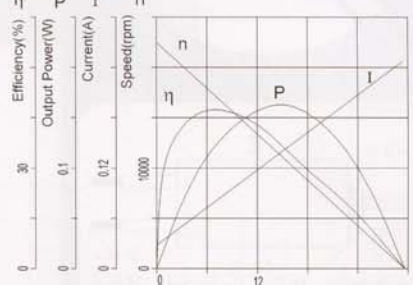


單位UNIT: mm 重量Weight: 2.8g(approx)

Model: QX7-N-040350



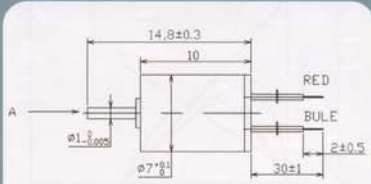
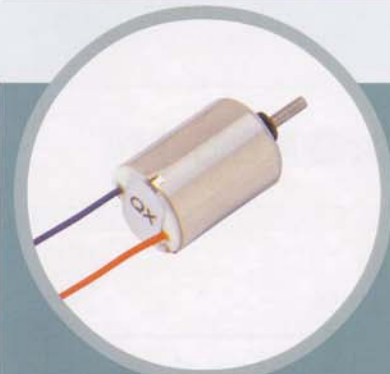
Model: QX7-N-081060



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX7A-N-040350	1~2	1.5	21000	0.056	0.15	15700	6.4	0.10	0.14	0.24	10800	24.7	0.43
QX7A-N-081060	2~4	3.0	23000	0.027	0.08	17400	6.6	0.11	0.16	0.14	11900	29.0	0.26
QX7A-N-118055	3~6	4.5	24000	0.017	0.06	17900	7.1	0.13	0.18	0.10	11500	30.0	0.18

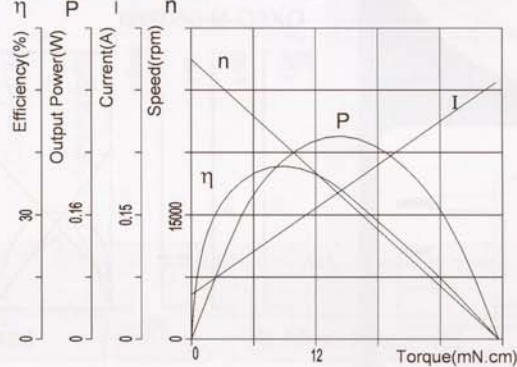
Ø7mm

ITEM NO:QX7B-N



單位UNIT: mm 重量Weight: 1.4g(approx)

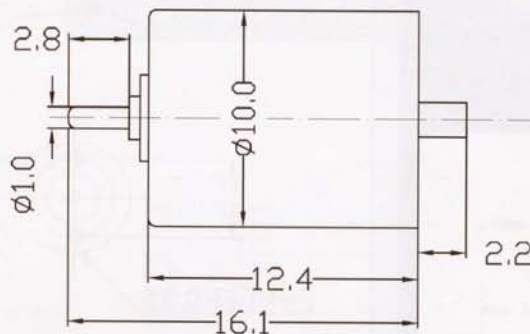
Model: QX7B-N-130055



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX7B-N-055350	1~2	1.5	30000	0.085	0.22	21000	6.8	0.15	0.18	0.32	15000	22.5	0.55
QX7B-N-085070	2~4	3.0	36000	0.085	0.21	25200	9.6	0.25	0.30	0.29	18000	32.0	0.49
QX7B-N-130055	3~6	4.5	36000	0.055	0.13	25200	8.9	0.24	0.24	0.18	18000	30.0	0.31



Ø 10mm ITEM NO:QX10-N



單位UNIT: mm 重量Weight: 3.8g(approx)

High energy NdFeB sintered magnet and precious metal-brush motor.

Typical applications:

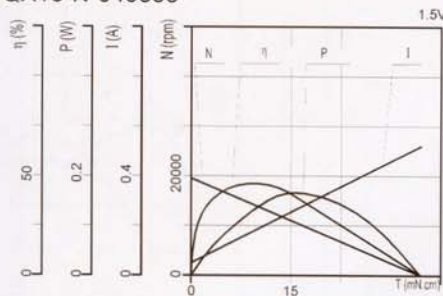
- High quality radio controlled toys
- Medical appliances
- High quality audio and visual products
- Optical instruments
- Communication equipment
- Office automation equipment
- Precious apparatus and meter
- Other industrials

高性能 NdFeB, 貴金屬電刷電機

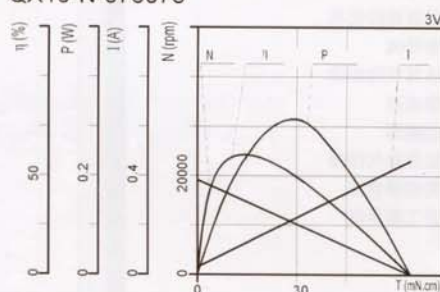
典型用途:

- 高品質聲控玩具
- 醫療器械
- 高品質視聽設備
- 光學儀器
- 通訊設備
- 辦公自動化設備
- 精密儀器儀表
- 其它工業用途

QX10-N-040355



QX10-N-076078



型號 Model	電壓 Voltage		空載 No-load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX10-N-040355	1~2.4	1.5	19500	0.05	0.175	14360	9.1	0.124	0.166	0.265	10590	34.5	0.52
QX10-N-076078	2~4	3	19120	0.03	0.122	15050	13.7	0.228	0.32	0.21	10390	64.4	0.46
QX10-N-087060	3~6	4.5	28580	0.029	0.09	23000	9.4	0.21	0.342	0.184	14740	48.3	0.35
QX10-N-100050	3~7	6	29800	0.03	0.08	23820	9.5	0.243	0.356	0.15	14950	47.3	0.276



ITEM NO: QX-FF-KN20

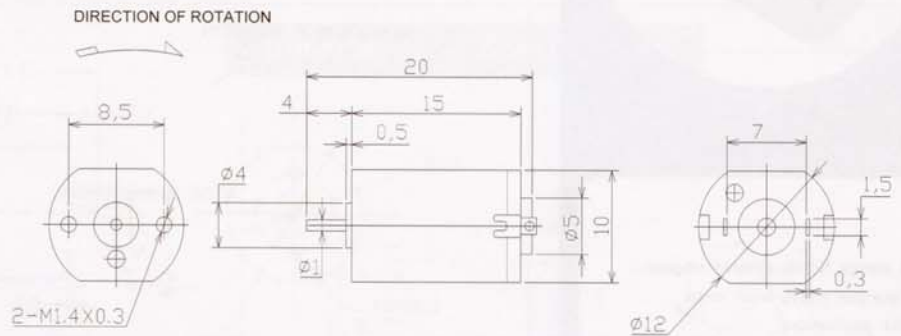
High energy NdFeB sintered magnet and precious metal-brush motor.

Typical applications:

- High quality radio controlled toys
- Medical appliances
- High quality audio and visual products
- Optical instruments
- Communication equipment
- Office automation equipment
- Precious apparatus and meter
- Other industrials

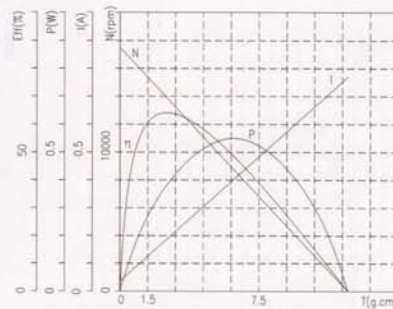
高性能 NdFeB, 貴金屬電刷電機
 典型用途:

- 高品質聲控玩具
- 醫療器械
- 高品質視聽設備
- 光學儀器
- 通訊設備
- 辦公自動化設備
- 精密儀器儀表
- 其它工業用途

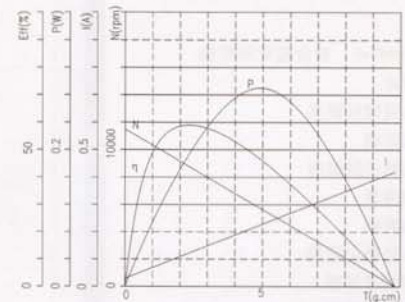


單位UNIT: mm 重量Weight: 5.5g (approx)

QX-FF-KN20-072100(3V)

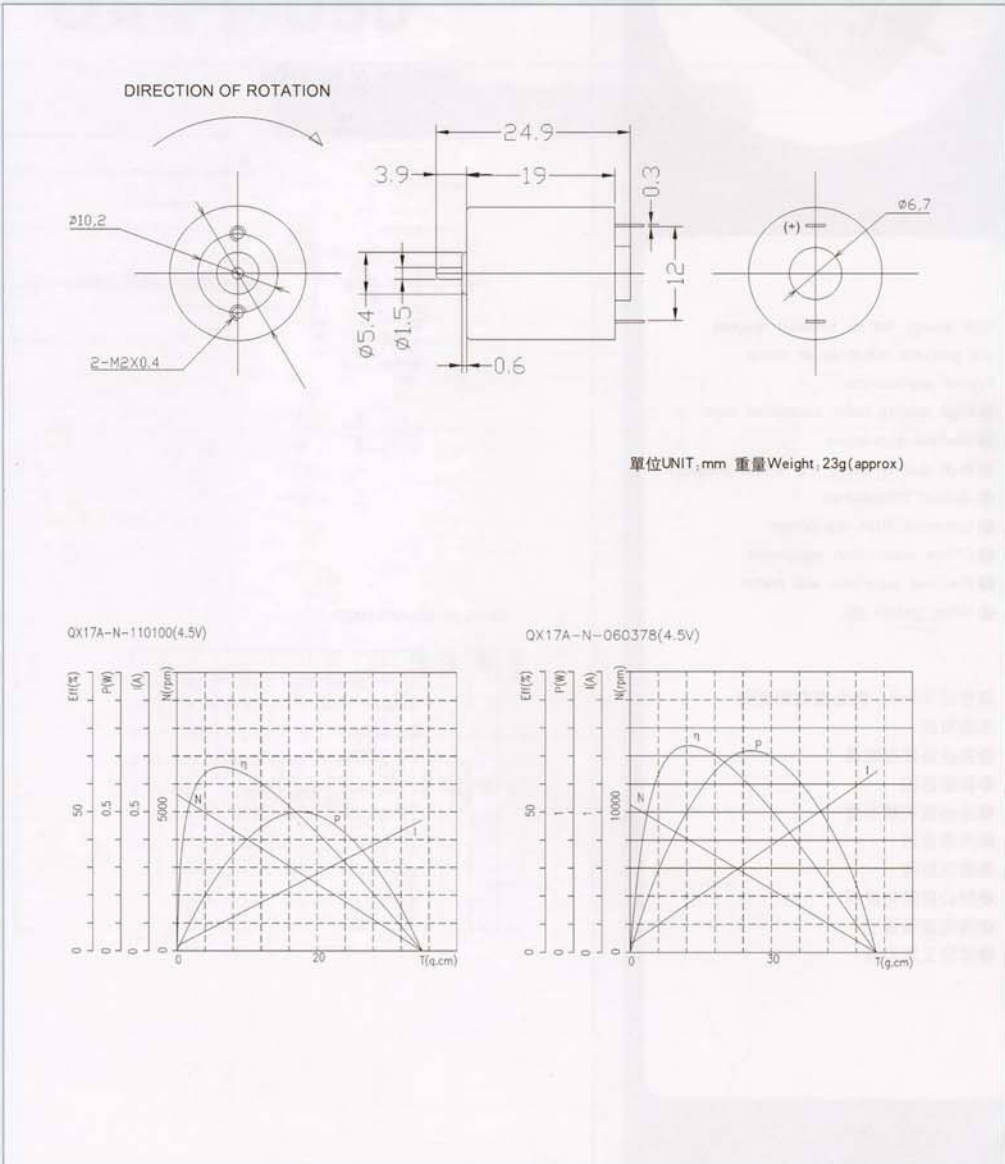


QX-FF-KN20-105085(3V)



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	電流 Current A
QX-FF-KN20-072100	2-4	3	17500	0.055	0.2	14000	2.4	0.36	0.556	0.41	8750	12.3	0.77
QX-FF-KN20-105085	2-4	3	11500	0.045	0.14	8620	2.4	0.221	0.295	0.23	5750	9.8	0.42

Ø17mm ITEM NO:QX17A-N



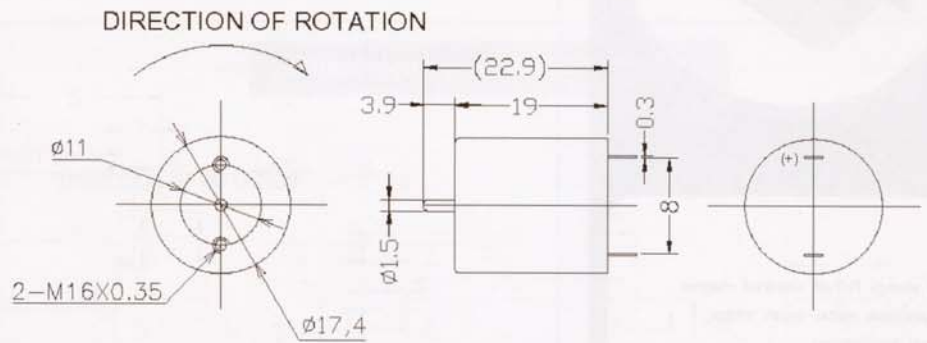
High energy NdFeB sintered magnet and precious metal-brush motor.
 Typical applications:
 ● High quality radio controlled toys
 ● Medical appliances
 ● High quality audio and visual products
 ● Optical instruments
 ● Communication equipment
 ● Office automation equipment
 ● Precious apparatus and meter
 ● Other industrials

高性能 NdFeB, 貴金屬電刷電機
 典型用途:
 ● 高品質聲控玩具
 ● 醫療器械
 ● 高品質視聽設備
 ● 光學儀器
 ● 通訊設備
 ● 辦公自動化設備
 ● 精密儀器儀表
 ● 其它工業用途

型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency				最大出力點 At Max.Output			堵轉 Stall	
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	電流 Current A
QX17A-N-060378	2~5	4.5	10800	0.045	0.22	9100	7.8	0.75	1.48	0.66	5400	52.0	1.32
QX17A-N-110100	2~5	4.5	5600	0.035	0.11	4480	7	0.328	0.513	0.25	2800	35.0	0.49

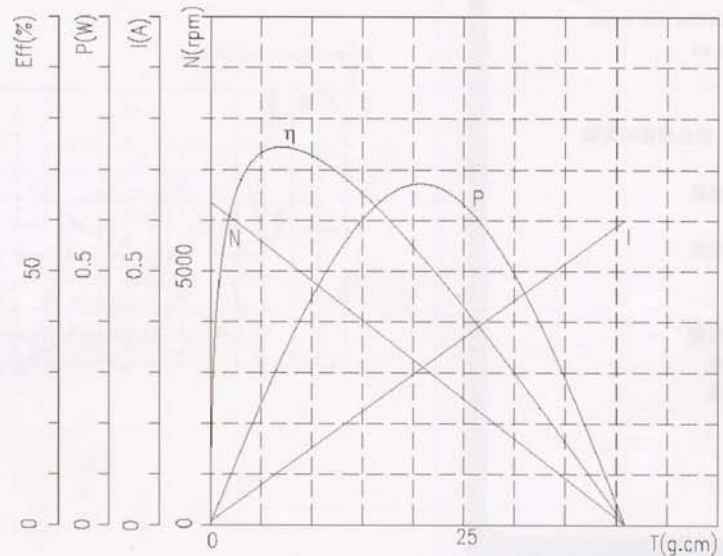


Ø17mm ITEM NO:QX17B-N



單位 UNIT: mm 重量 Weight: 20g(approx)

No: QX17B-N-057278(4.5V)



High energy NdFeB sintered magnet and precious metal-brush motor.

Typical applications:

- High quality radio controlled toys
- Medical appliances
- High quality audio and visual products
- Optical instruments
- Communication equipment
- Office automation equipment
- Precious apparatus and meter
- Other industrials

高性能 NdFeB, 貴金屬電刷電機

典型用途:

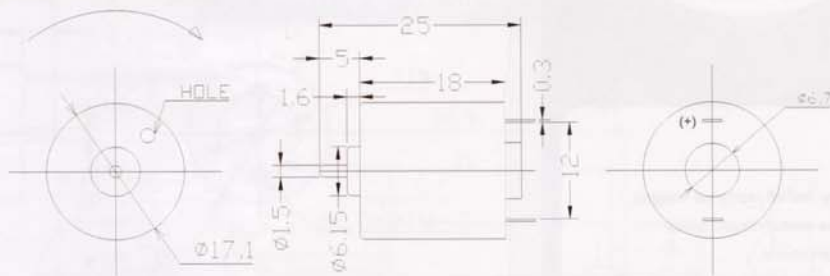
- 高品質聲控玩具
- 醫療器械
- 高品質視聽設備
- 光學儀器
- 通訊設備
- 辦公自動化設備
- 精密儀器儀表
- 其它工業用途

型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque g.cm	電流 Current A
QX17B-N-057278	2~5	4.5	6300	0.013	0.11	5300	6	0.34	0.67	0.31	3100	41	0.6
QX17B-N-057278	6~9	9.0	12800	0.020	0.15	11500	8.2	1.37	2.6	0.65	6400	82	1.2

ITEM NO:QX-RF-K020



DIRECTION OF ROTATION



單位UNIT: mm 重量Weight: 18g(approx)

High energy NdFeB sintered magnet and precious metal-brush motor.

Typical applications:

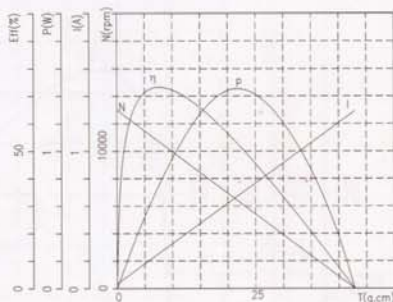
- High quality radio controlled toys
- Medical appliances
- High quality audio and visual products
- Optical instruments
- Communication equipment
- Office automation equipment
- Precious apparatus and meter
- Other industrials

高性能 NdFeB, 貴金屬電刷電機

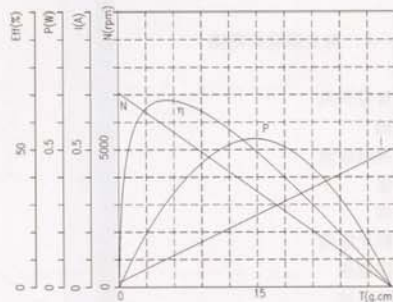
典型用途:

- 高品質聲控玩具
- 醫療器械
- 高品質視聽設備
- 光學儀器
- 通訊設備
- 辦公自動化設備
- 精密儀器儀表
- 其它工業用途

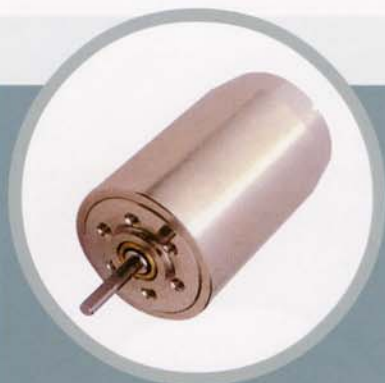
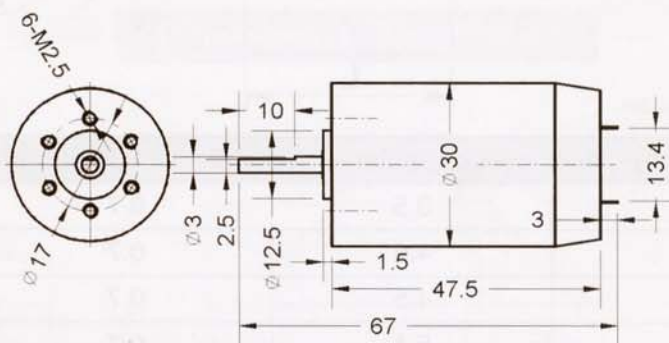
QX-RF-K020-060378(4.5V)



QX-RF-K020-100100(4.5V)



型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency				最大出力點 At Max.Output			堵轉 Stall	
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed	電流 Current	電流 Current	速度 Speed	轉矩 Torque	出力 Output	出力 Output	電流 Current	速度 Speed	轉矩 Torque	電流 Current
			r/min	A	A	r/min	g.cm	W	W	A	r/min	g.cm	A
QX-RF-K020-100100	2~5	4.5	7000	0.035	0.12	5600	6	0.35	0.54	0.263	3500	29.0	0.5
QX-RF-K020-060378	2~5	4.5	12900	0.045	0.284	10300	8	0.93	1.45	0.67	6450	43.0	1.3


Ø 30mm
ITEM NO:QX30-N


單位UNIT: mm 重量Weight: 175g(approx)

High energy NdFeB sintered magnet and precious metal-brush motor.

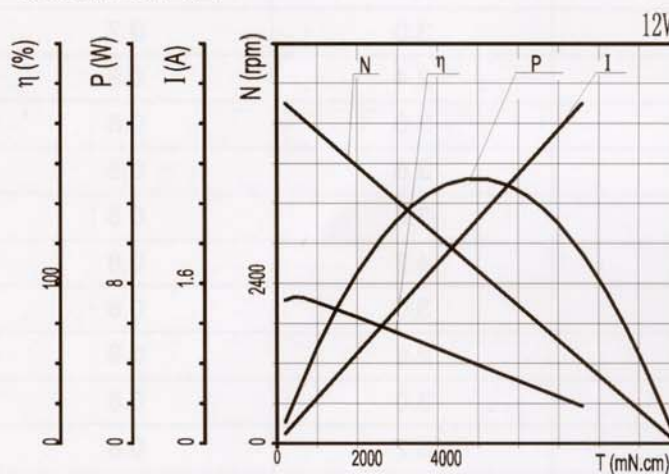
Typical applications:

- High quality radio controlled toys
- Medical appliances
- High quality audio and visual products
- Optical instruments
- Communication equipment
- Office automation equipment
- Precious apparatus and meter
- Other industrials

高性能 NdFeB, 貴金屬電刷電機

典型用途:

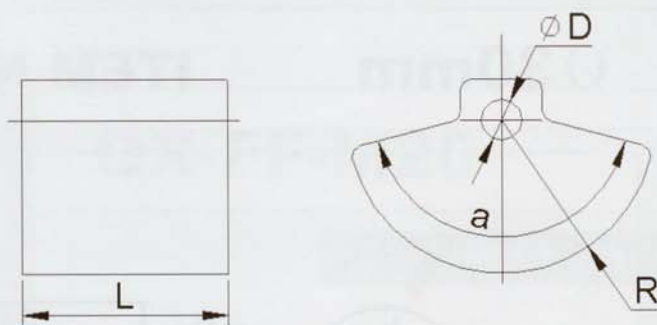
- 高品質聲控玩具
- 醫療器械
- 高品質視聽設備
- 光學儀器
- 通訊設備
- 辦公自動化設備
- 精密儀器儀表
- 其它工業用途

QX30-N-036212


型號 Model	電壓 Voltage		空載 No-Load		最大效率點 At Max.Efficiency			最大出力點 At Max.Output			堵轉 Stall		
	工作範圍 Operating Range(V)	標稱值 Nominal V	速度 Speed r/min	電流 Current A	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	出力 Output W	出力 Output W	電流 Current A	速度 Speed r/min	轉矩 Torque mN.cm	電流 Current A
QX30-N-036212	1~14	12	5400	0.02	0.21	4950	470	2.42	13.2	2.24	2040	10000	4.8

■ The material for reference only, all of the pictures are as criterion as material object.
本畫冊僅供參考, 所有圖片資料均以實物為準。

List of Counter Weight



Radius(mm)	Length(mm)	Center Hole(mm)	Angle(°)	weight(g)
1.9	3.5	0.7	180°	0.38
1.9	4.0	0.7	180°	0.4
1.9	4.5	0.7	180°	0.45
1.9	5.1	0.7	180°	0.5
1.9	5.5	0.7	180°	0.55
2.2	4.3	0.7	150°	0.5
2.2	4.6	0.7	150°	0.58
2.5	3.0	0.7	180°	0.55
2.5	3.0	0.7	150°	0.5
2.5	2.4	0.8	180°	0.47
2.5	3.0	0.8	180°	0.53
2.5	3.6	0.8	180°	0.7
2.5	3.6	0.8	180°	0.75
2.5	4.2	0.8	180°	0.83
2.7	3.0	0.8	180°	0.7
2.8	2.6	0.8	180°	0.6
2.8	3.0	0.8	150°	0.6
2.8	3.7	0.8	180°	0.8
2.8	4.2	0.8	180°	1.0
2.9	3.5	0.8	180°	0.9
2.9	3.5	0.8	180°	0.65
3.0	2.8	0.8	180°	0.8
3.0	4.2	0.8	180°	1.1
3.0	4.5	0.8	180°	1.15
3.0	5.0	0.8	180°	1.4
3.3	5.5	1.0	180°	1.5
3.4	4.2	1.0	180°	1.5
5.5	3.0	1.0	180°	2.7

Vibrator can be modified according to customer's requirements

振子規格可按客户要求设定


三洋電機(蛇口)有限公司 南油工場シャフトサンプル

モーターシャフト

中国材



Φ0.6×14.0
DSR7B



Φ0.7×14.0
DSR7B




Φ0.8×17.0
DSR7B



Φ1.0×26.5
DSR7B




Φ0.7×12.4
3Cr13




Φ1.2×13.1
DSR7B




Φ1.5×29.4
DSR7B



Φ2.0×48.0
DSR7B




Φ2.5×44.5
DSR7B



Φ2.0×32.0
3Cr13


ガイドバー(FDD用)



Φ2.5×55.0
SUS420J2



Φ3.0×55.0
SUS420J2



Φ3.0×80.0
SUS420J2

Dカット付き


溝付き(CD-ROM用)




Φ2.0×52.0
DSR7B



Φ4.0×71.0
DSR7B



Φ3.0×17.0
SUS420F



Φ3.0×18.1
SUS420F

我公司與三洋電機(蛇口)有限公司微馬達軸事業部合作生產加工電機軸。作為近年度雙方合作的重點項目,三洋公司無論在資金、設備,還是在技術上都給予最強有力的支持。目前,規模生產產品有Φ0.6-Φ3向各種、正常、异形軸,具有硬度高,光澤度好的特點,其真圓度達到0.3 μm,真直度達到1.0 μm,廣泛應用於電機、照相機、空調、復印機等設備。

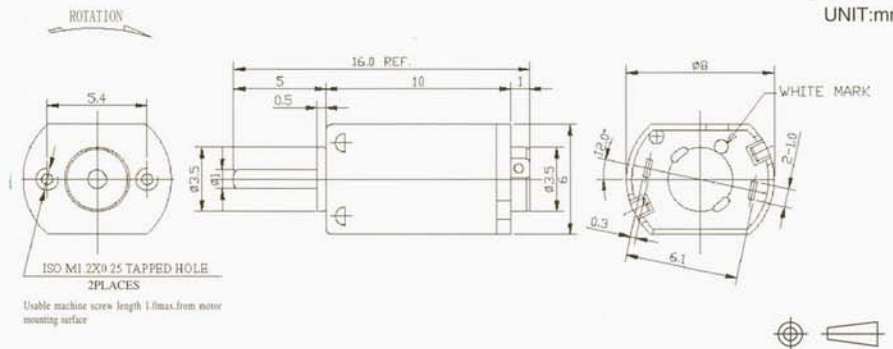
Our company has been co-operating with Sanyo Electric (Shekou) Ltd. Shenzhen, manufacturing stainless steel shaft from Φ0.6mm~Φ3mm. We are the sales agent of Sanyo shaft in China. In terms of quality and price, It is no doubt that we are the best.

QX-FF-K10

Dimensions & Specification



WEIGHT : 1.6 g (Approx)
UNIT:mm



Precious metal - brush motors

Output :

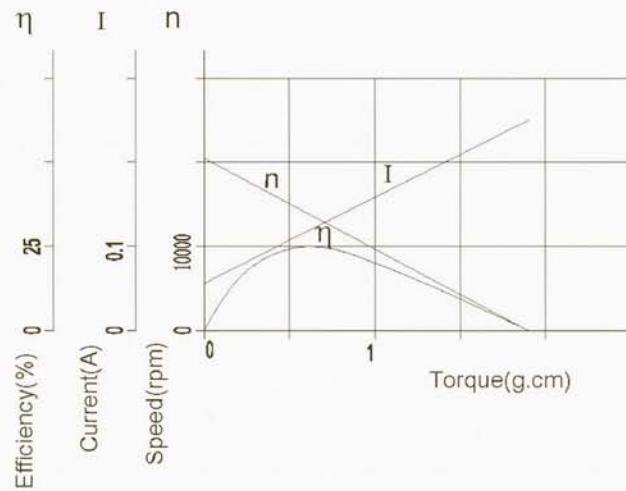
APPROX 0.04W ~ 0.8W

Typical Application :

Note Book PC
Camera

Model:QX-FF-K10-5Z215

Voltage:3.0V



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				At Stall
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-K10-5Z215	2.5 ~ 3.5	3.0	20500	0.057	13800	0.12	0.63	0.089	1.9

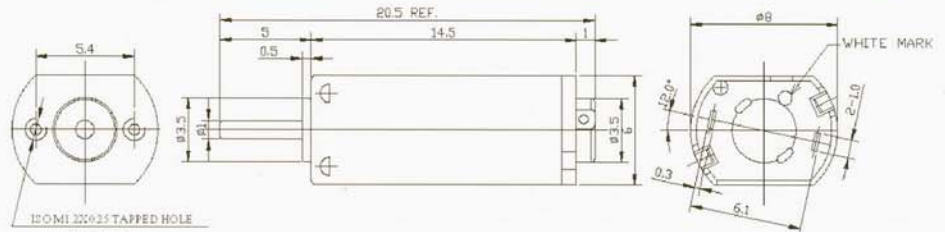
* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FF-K20

Dimensions & Specification



WEIGHT : 2.4 g (Approx)
UNIT:mm



120MI 22025 TAPPED HOLE
2 PLACES
Usable machine screw length 1.5mm from motor mounting surface



Precious metal - brush motors

Output :

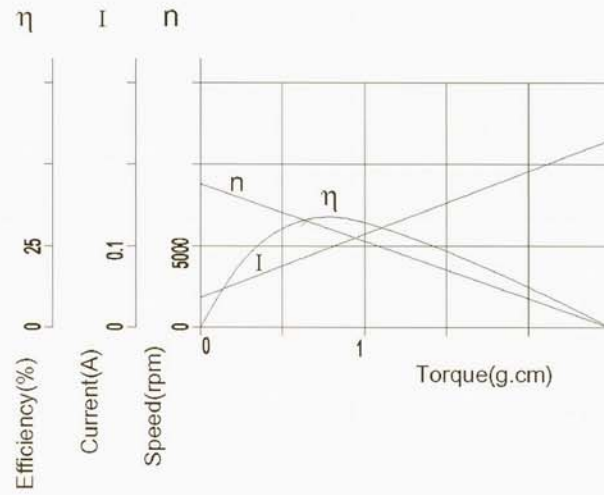
APPROX 0.04W ~ 0.2W

Typical Application :

CD/DVD-ROM Drive
Note Book PC

Model:QX-FF-K20-08127

Voltage:1.5V



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				At Stall
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-K20-08127	1.5 ~ 3.5	1.5	8800	0.038	6260	0.093	0.74	0.047	2.5

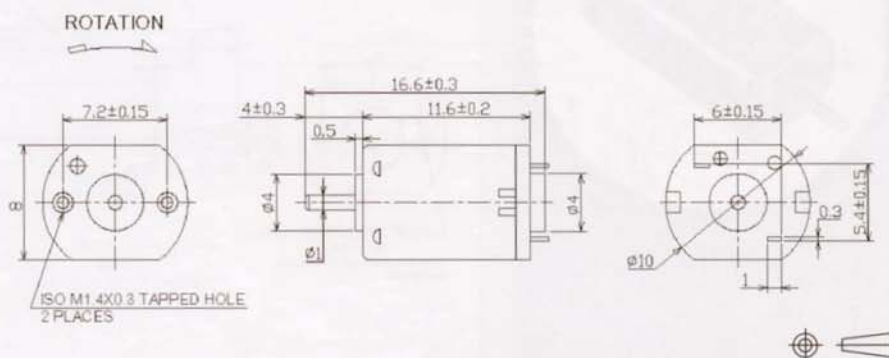
* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FF-M20(SS)

Dimensions & Specification



UNIT:mm



Precious metal - brush motors

Output :

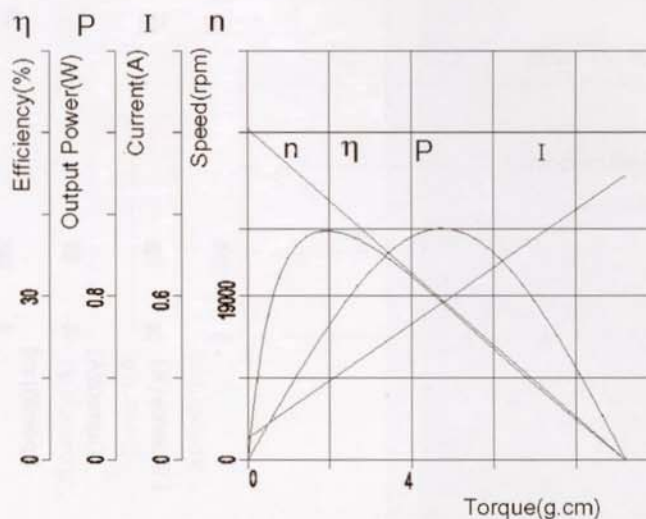
APPROX 0.05W ~ 0.5W

Typical Application :

 CD/DVD-ROM Drive
Note Book PC

Model:QX-FF-M20(SS)-08160

Voltage:6.0V



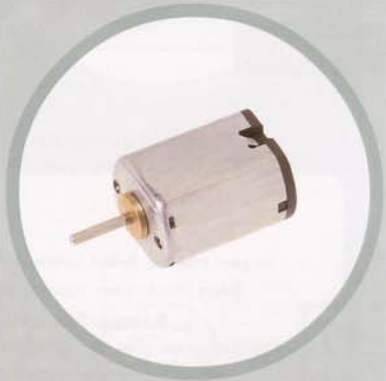
Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				At Stall
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-M20(SS)-08160	1.0 ~ 6.0	6.0	37600	0.080	31700	0.240	11.5	0.5	1.8

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸文長短可按客戶要求設定。

QX-FF-M20 (S)

Dimensions & Specification



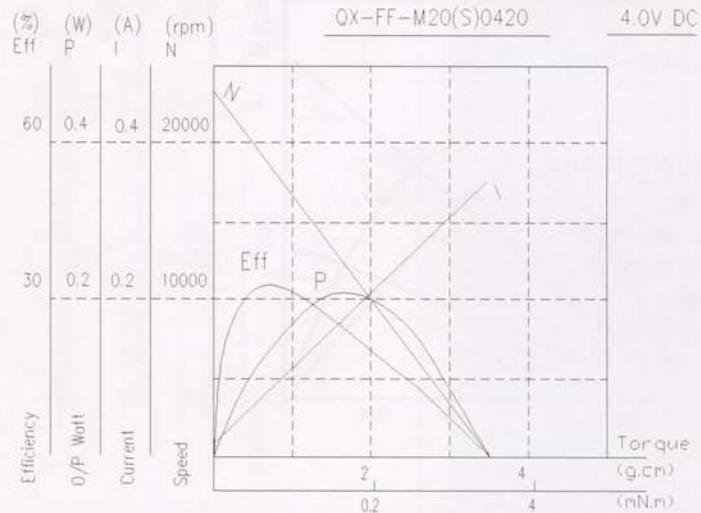
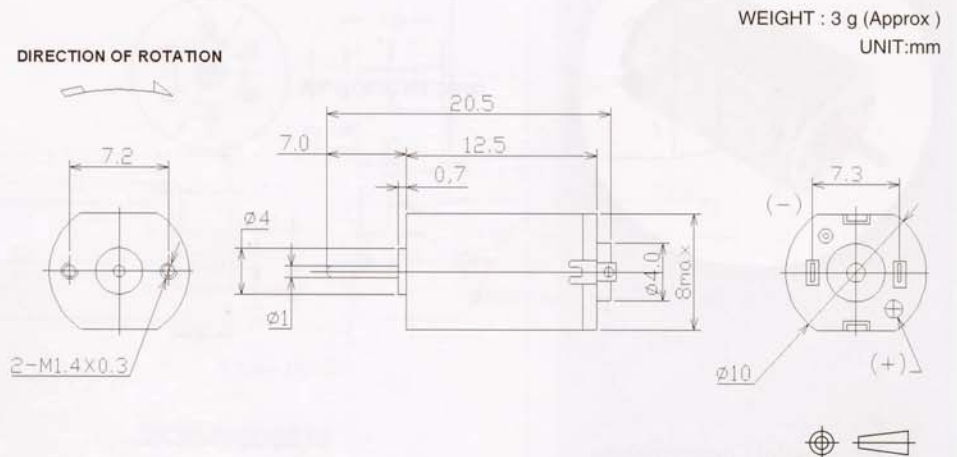
Precious metal - brush motors

Output :

APPROX 0.05W ~ 0.5W

Typical Application :

- Camera
- Camcorder
- CD / MD Player & Recorder
- Car CD / MD Player



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-M20(S)-09155	1.5 ~ 4.5	4.0	23000	0.07	16500	0.17	1.0	0.17	3.5

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FF-M20

Dimensions & Specification



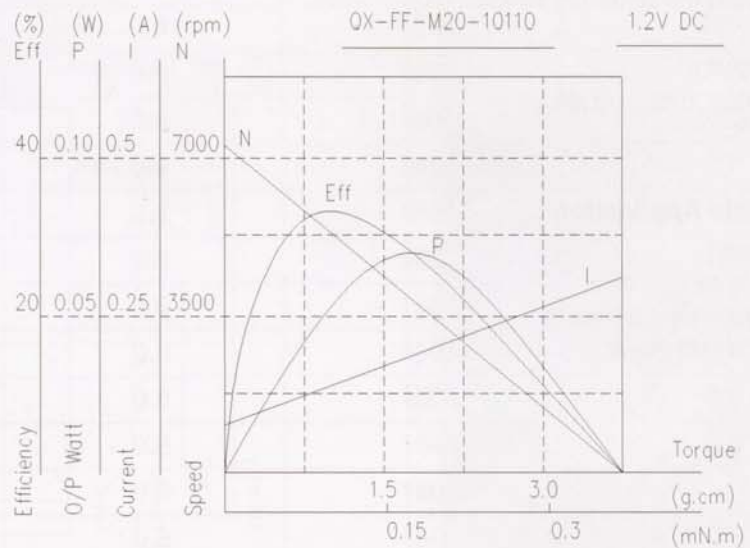
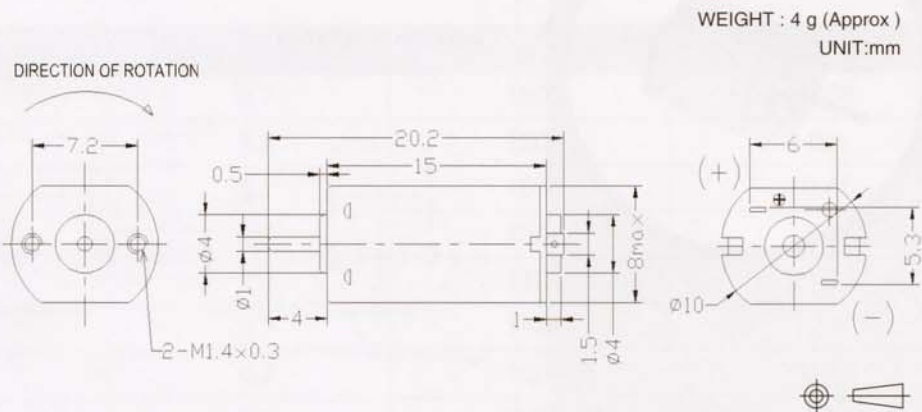
Precious metal - brush motors

Output :

APPROX 0.05W ~ 0.5W

Typical Application :

- Car CD Player
- Portable CD / MD Player
- MD Player & Recorder
- Electric Shaver
- Camera / Camcorder



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-M20-08130	2 ~ 3	3.0	15200	0.045	11800	0.16	1.6	0.19	7.0
QX-FF-M20-07170	2 ~ 4	2.0	8000	0.025	6000	0.07	0.9	0.055	3.6
QX-FF-M20-10110	1.0 ~ 2.4	1.2	7250	0.058	5300	0.13	0.96	0.052	3.7

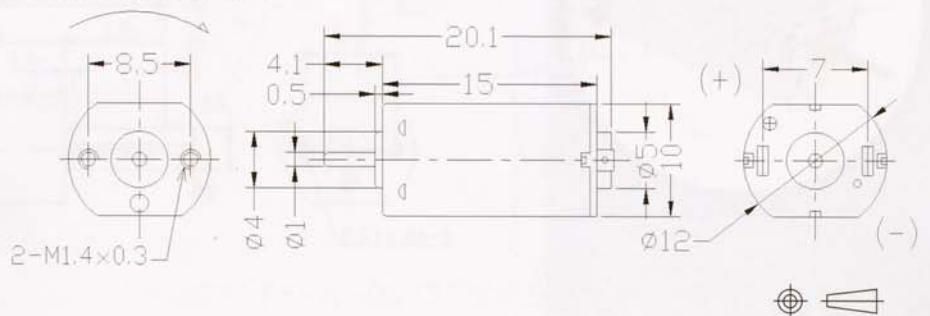
* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FF-N20

Dimensions & Specification

 WEIGHT : 5 g (Approx)
 UNIT:mm

DIRECTION OF ROTATION



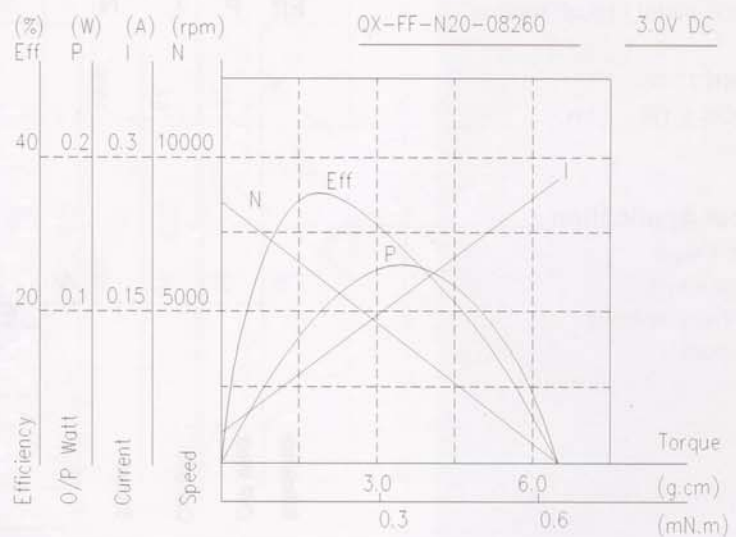
Precious metal - brush motors

Output :

APPROX 0.2W ~ 0.8W

Typical Application :

- Blood Pressure Meter
- Radio Control Model
- Camera / Camcorder
- CD / MD Player
- Toys and Models
- Tooth Brush
- Door Lock Actuator

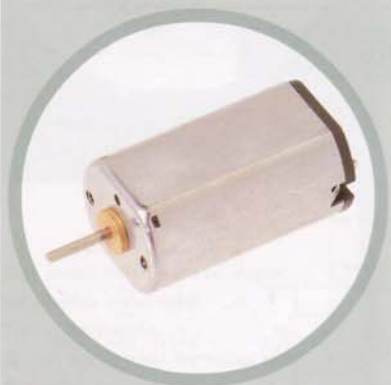

 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-N20-10190	2 ~ 5	3.0	12100	0.045	9600	0.15	1.9	0.19	9.4
QX-FF-N20-13115	1.5 ~ 3.0	2.4	15800	0.096	12200	0.34	2.7	0.34	13.0
QX-FF-N20-08260	2 ~ 3	3.0	8200	0.040	5920	0.10	1.8	0.11	6.3

* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客户要求設定。

QX-FF-N30

Dimensions & Specification



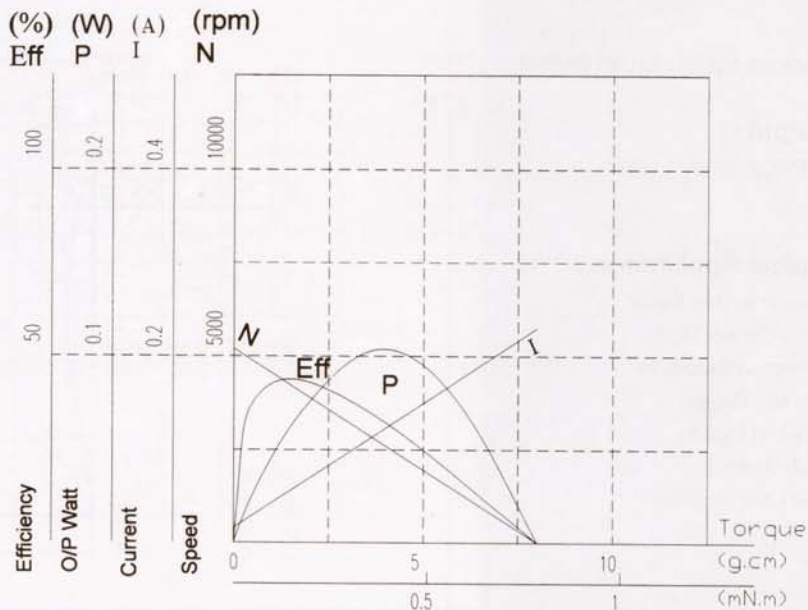
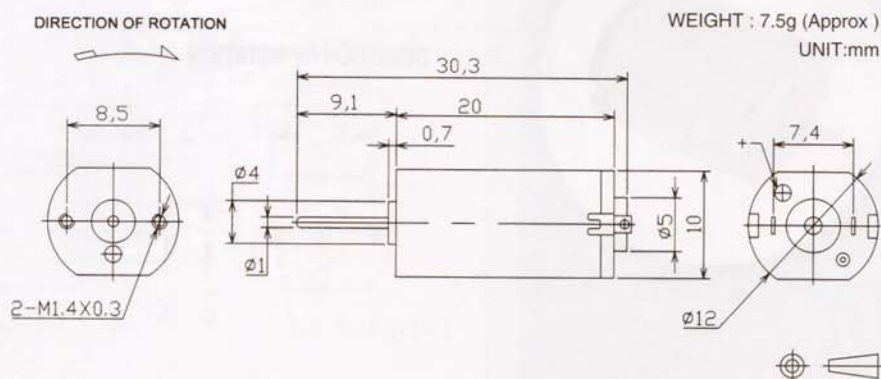
Precious metal - brush motors

Output :

APPROX 0.1W ~ 0.8W

Typical Application :

- Car MD Player
- CD / MD Player
- Blood Pressure Meter
- Tooth Brush



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-N30-09210	2 ~ 5	2.5	5200	0.019	4000	0.066	1.8	0.074	8.0

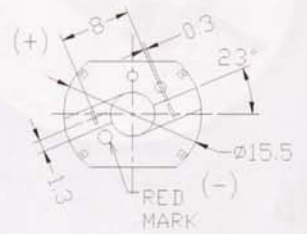
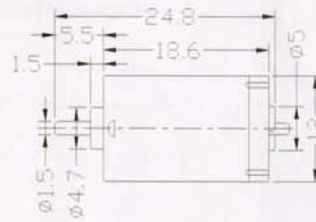
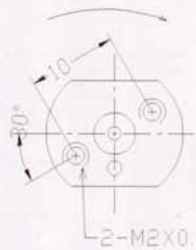
* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-FF-030

Dimensions & Specification

 WEIGHT : 11g (Approx)
 UNIT:mm


DIRECTION OF ROTATION



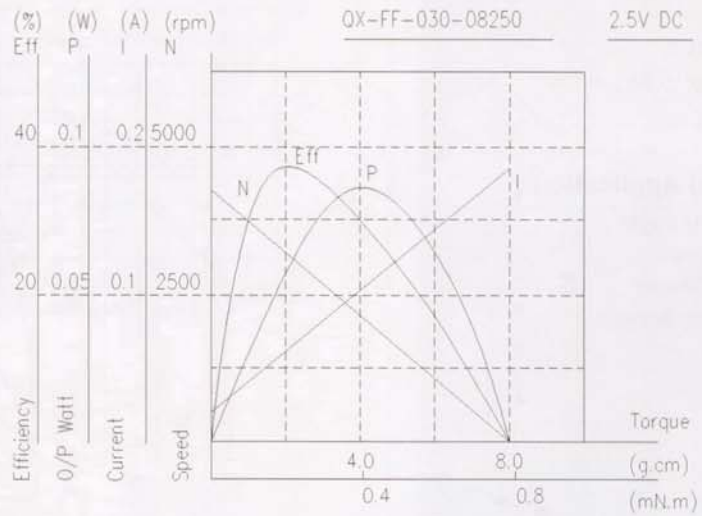
Precious metal - brush motors

Output :

APPROX 0.05W ~ 1.2W

Typical Application :

- Motorized Toys
- CD / DVD - Rom Driver
- Blood Pressure Meter
- Tooth Brush
- Facial Massager



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-030-08250	1 ~ 6 V	2.5	4100	0.028	2940	0.071	2.1	0.064	7.6
QX-FF-030-09210	1 ~ 6 V	6.0	10500	0.041	8000	0.13	4.3	0.35	19
		4.7	9800	0.045	7400	0.15	4.0	0.30	17

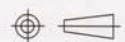
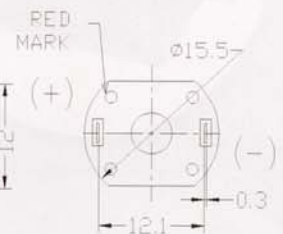
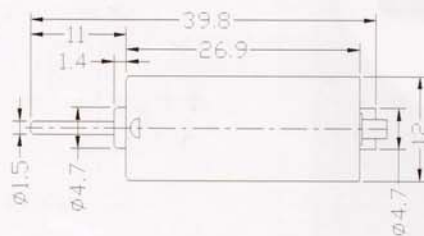
* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-FF-050

Dimensions & Specification

 WEIGHT : 18g (Approx)
 UNIT:mm


DIRECTION OF ROTATION



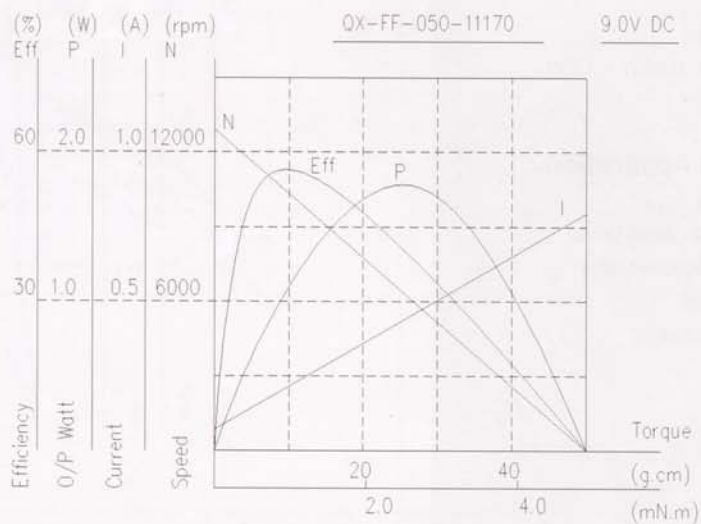
Precious metal - brush motors

Output :

APPROX 0.2W ~ 1.5W

Typical Application :

- CD / DVD player
- Tooth Brush
- Electric Shaver
- Door Lock Actuator


 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

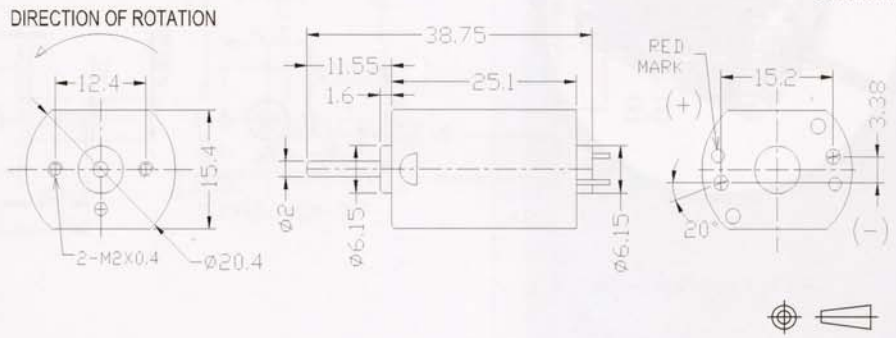
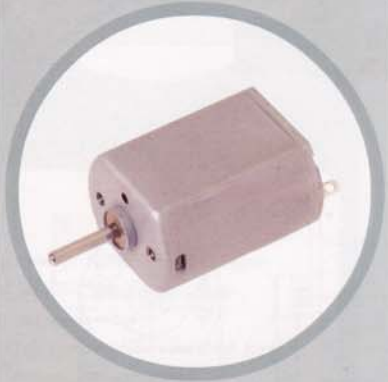
Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-050-11170	1.5 ~ 9.0	7.0	10300	0.05	8500	0.17	7.0	0.61	46
		9.0	12900	0.05	10200	0.20	10.2	1.50	50
QX-FF-050-13130	2 ~ 4	2.0	3700	0.04	3000	0.11	3.0	0.09	17
		4.0	7600	0.05	6300	0.20	6.0	0.39	35

* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-FF-130

Dimensions & Specification

WEIGHT : 24g (Approx)
 UNIT:mm



Precious metal - brush motors

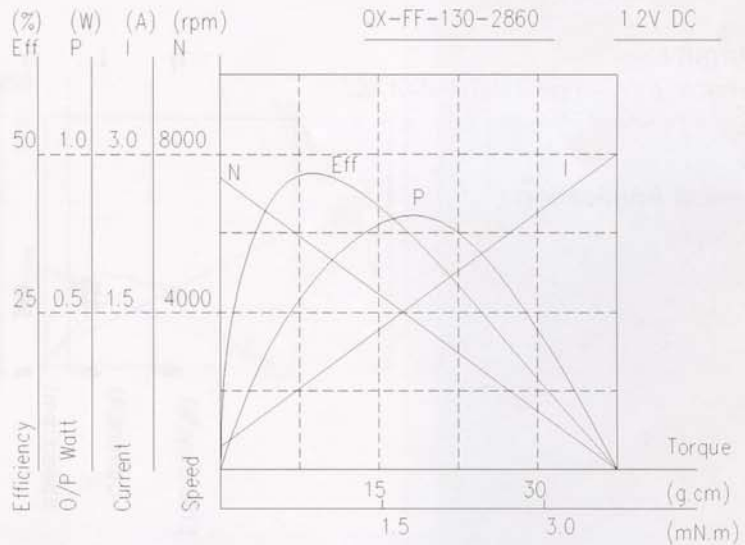
Output :

APPROX 0.1W ~ 2.5W

Typical Application :

- Tooth Brush
- Tope Cassette Adapter
- Door Lock Actuator

* Plastic and motel end-cap available



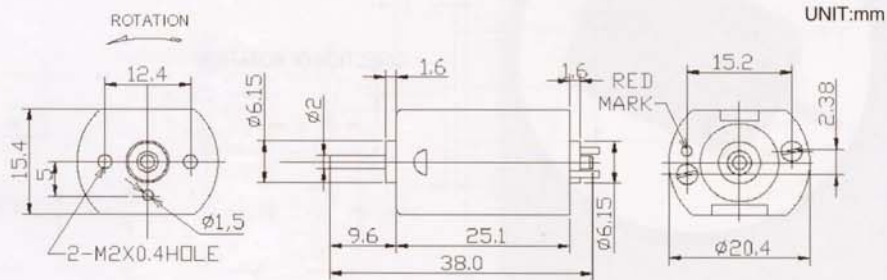
Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-130-2860	1.0 ~ 1.5	1.2	7400	0.210	5800	0.81	7.5	0.45	38
QX-FF-130-14230	2 ~ 8	3.0	3600	0.035	2900	0.12	6.0	0.18	36
QX-FF-130-11340	3 ~ 12	6.0	4800	0.030	3800	0.12	8.5	0.33	44
		9.0	7300	0.035	5900	0.15	12	0.73	67

* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-FK-K130

Dimensions & Specification



UNIT:mm

Carbon - brush motors

Output :

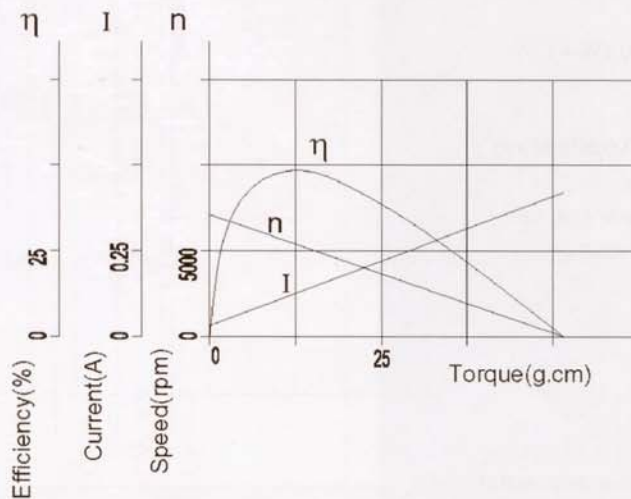
APPROX 0.5W ~ 15W

Typical Application :

Toy/Model

Model:QX-FK-130-09450

Voltage:12V


 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency				At Stall
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FK-130-09450	6~ 24	12.0	7200	0.030	5680	0.11	11.4	0.66	54
QX-FK-130-16180	4 ~ 10	4.8	7100	0.080	5690	0.32	13.4	0.78	67

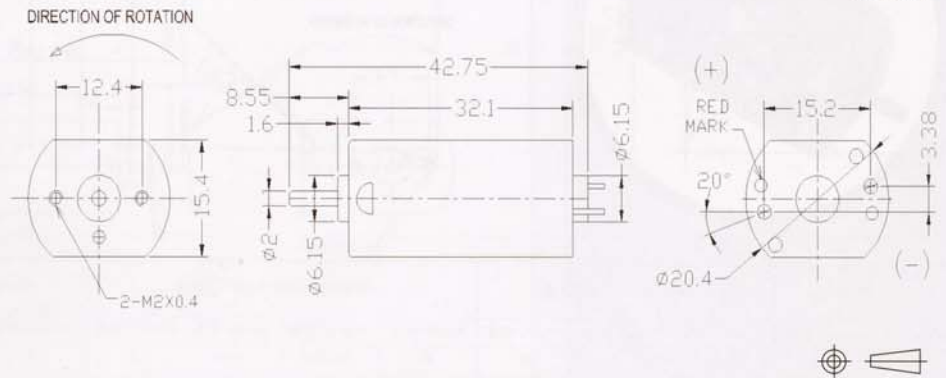
* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-FF-180 XD

Dimensions & Specification

WEIGHT : 32g (Approx)
UNIT:mm



Precious metal - brush motors

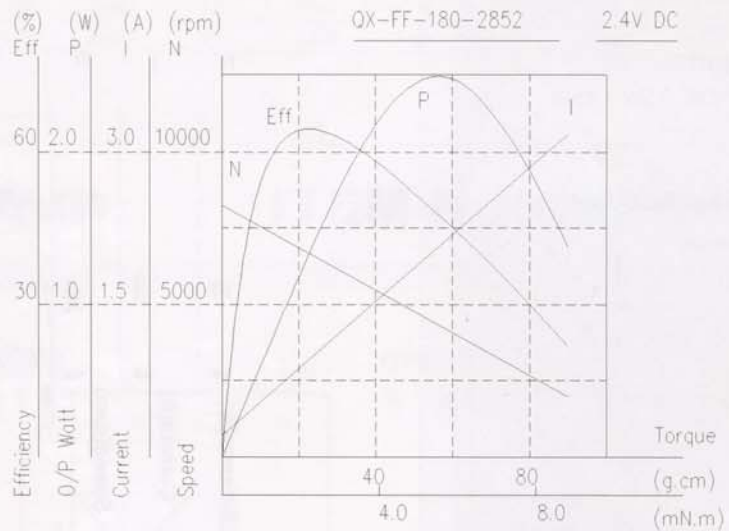
Output :

APPROX 0.5W ~ 3.5W

Typical Application :

- Audio and Visual Equipment
- VCR / DVD Player
- Electric Shaver
- Tooth Brush
- Door Lock Actuator

* Plastic and metal end-cap available



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

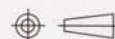
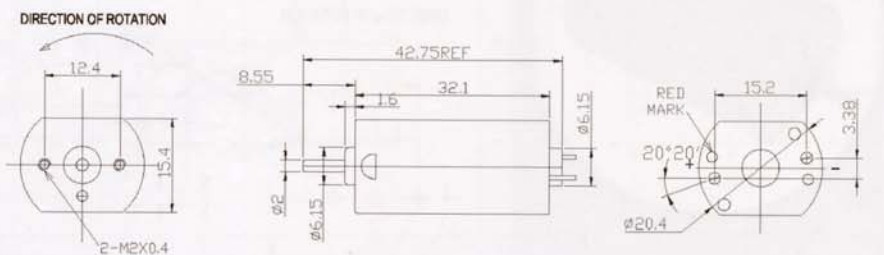
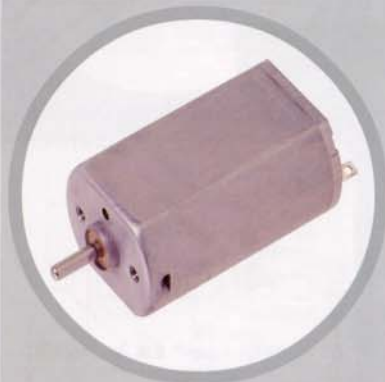
Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FF-180-4026	1.0 ~ 1.5	1.2	8300	0.300	6900	1.60	15.0	1.06	106
QX-FF-180-2657	1 ~ 3	2.4	7700	0.130	6400	0.70	15.0	0.98	107
QX-FF-180-2852	1 ~ 3	2.4	8300	0.160	6900	0.86	18.0	1.27	116
QX-FF-180-14210	3 ~ 7.2	4.5	3700	0.025	3200	0.10	7.0	0.23	63
QX-FF-180-10320	6 ~ 12	12	6500	0.028	5300	0.12	7.5	0.41	82

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FK-K180

Dimensions & Specification

UNIT:mm



Carbon - brush motors

Output :

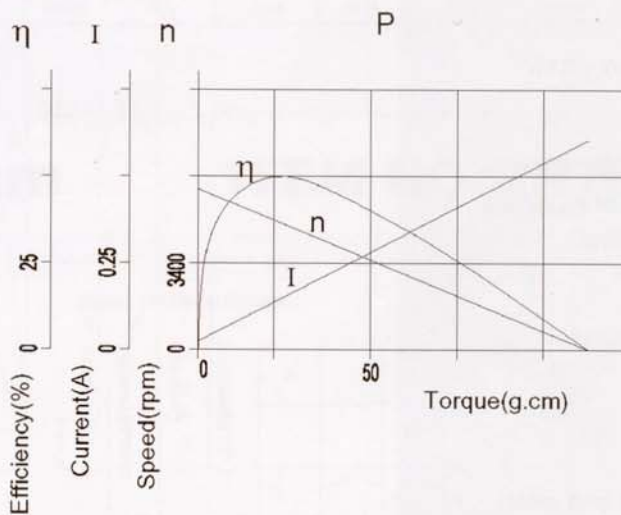
APPROX 0.5W ~ 15W

Typical Application :

Toy/Model

Model:QX-FK-180-09450

Voltage:24V



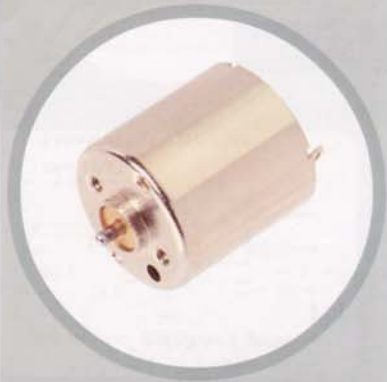
Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency				At Stall
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FK-180-09490	12 ~ 24	24	9200	0.025	7600	2.12	21.6	1.7	130
QX-FK-180-17140	6 ~ 7.2	6	7800	0.085	6390	0.39	20.8	1.36	115

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

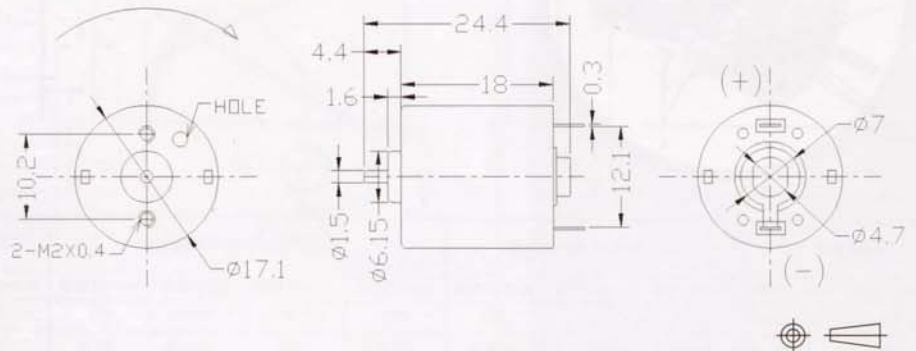
QX-RF-020

Dimensions & Specification



WEIGHT : 16 g (Approx)
UNIT:mm

DIRECTION OF ROTATION



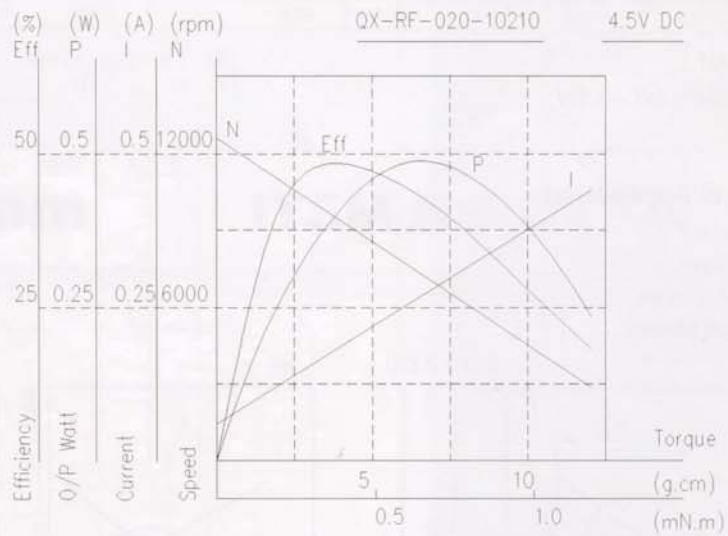
Precious metal - brush motors

Output :

APPROX 0.1W ~ 0.8W

Typical Application :

- Door Lock
- Massager
- Radio Control Model



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-020-10210	2 ~ 5	4.5	12600	0.058	9500	0.18	3.9	0.38	16

* Motor specification and shaft length can be tailor-made according to customer's requirements.

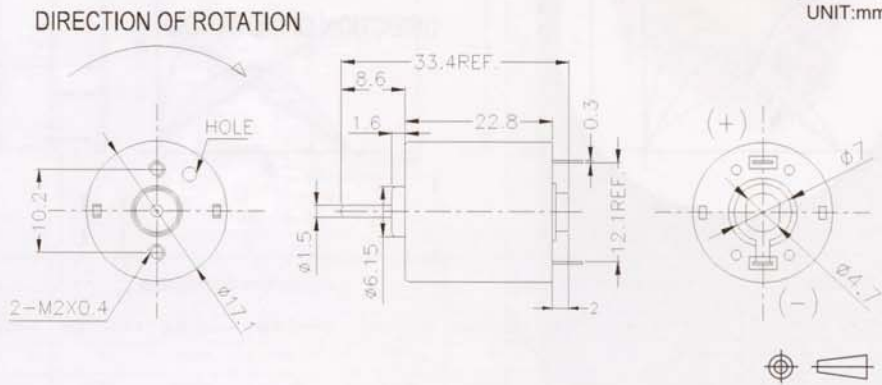
馬達性能及軸支長短可按客戶要求設定。

QX-RF-130

Dimensions & Specification



WEIGHT : 18g (Approx)
UNIT:mm



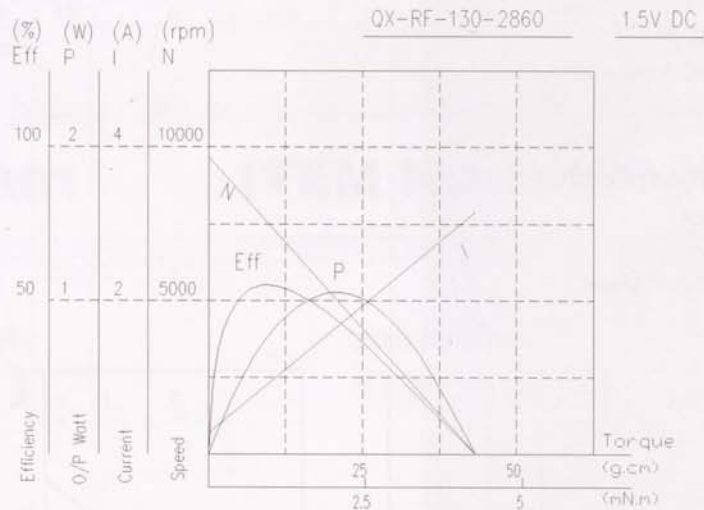
Precious metal - brush motors

Output :

APPROX 0.3W ~ 1.5W

Typical Application :

- CD player
- DVD player
- Electric Shaver
- Toys and Models



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-130-2860	1.0 ~ 1.5	1.5	9200	0.14	7600	0.67	7.5	0.58	43
QX-RF-130-12250	2.0 ~ 7.5	3.5	4700	0.028	3730	0.11	5.0	0.19	24
		6	8100	0.036	6600	0.16	7.8	0.53	42

* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RF-N20C

Dimensions & Specification

WEIGHT : 8g (Approx)
UNIT:mm



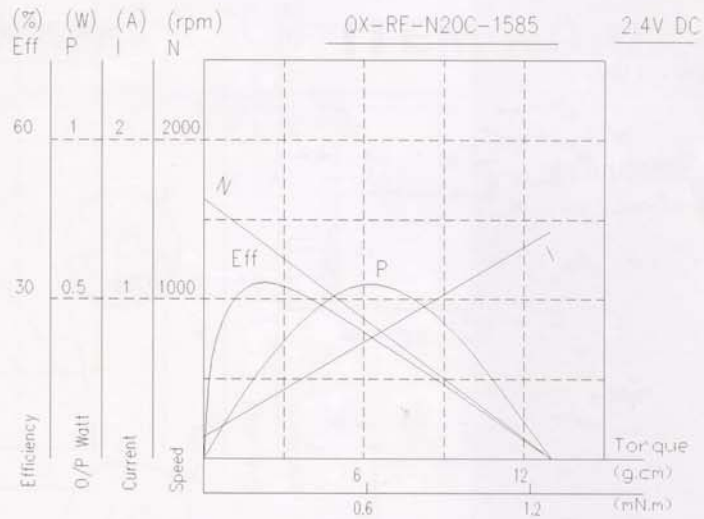
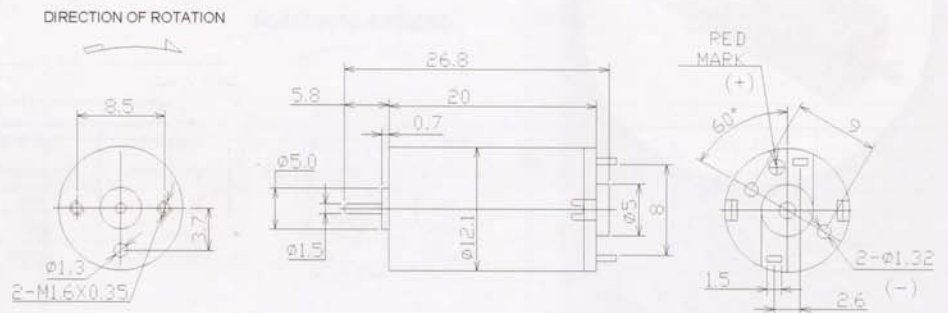
Precious metal - brush motors

Output :

APPROX 0.2W ~ 1.5W

Typical Application :

- Camera
- Blood Pressure Meter
- Precision Instruments



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-N20C-1396	1.5 ~ 3.0	2.4	14000	0.12	10000	0.40	4.0	0.41	12
QX-RF-N20C-1585	1.5 ~ 3.0	2.4	16000	0.14	11000	0.45	4.0	0.41	13
QX-RF-N20C-11150	2 ~ 5	5.0	19900	0.075	14100	0.27	4.0	0.57	14

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客户要求設定。

QX-RF-N60C

Dimensions & Specification



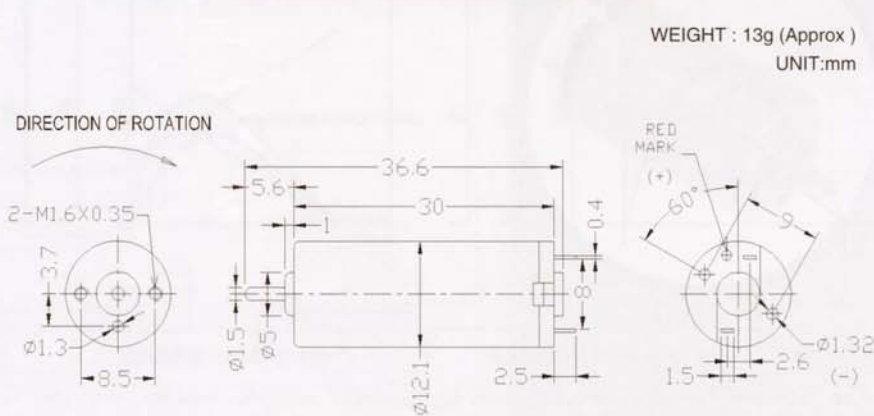
Precious metal - brush motors

Output :

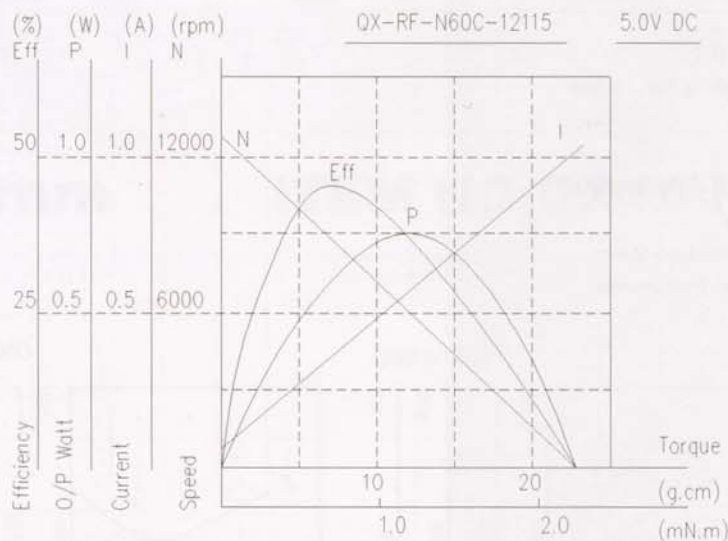
APPROX 0.2W ~ 1.5W

Typical Application :

- Household Appliances
- Motorized toy
- Camera



WEIGHT : 13g (Approx)
UNIT:mm



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

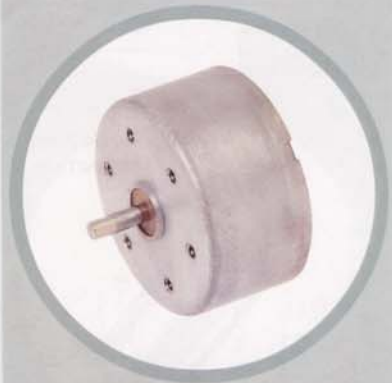
Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-N60C-1955	1 ~ 3	2.4	12700	0.14	10000	0.55	6.0	0.62	28
QX-RF-N60C-1786	1 ~ 4	3.0	13000	0.10	10000	0.40	6.0	0.62	26
QX-RF-N60C-13110	2 ~ 5	4.8	12600	0.06	10000	0.25	6.0	0.62	22
QX-RF-N60C-12115	3 ~ 6	5.0	12800	0.07	9500	0.26	6.0	0.55	22

* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RF-300

Dimensions & Specification



Precious metal - brush motors

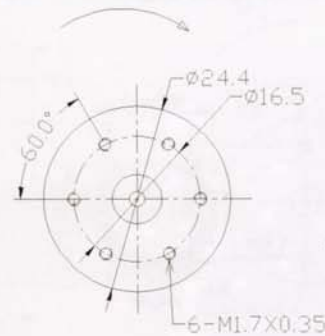
Output :

APPROX 0.1W ~ 0.5W

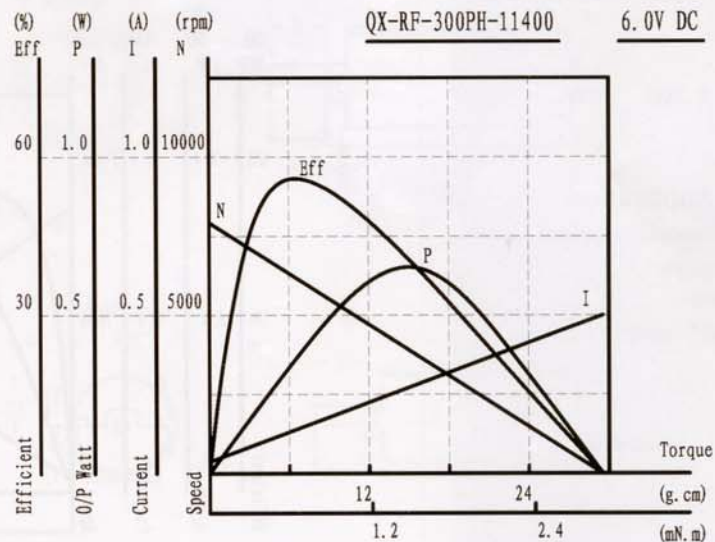
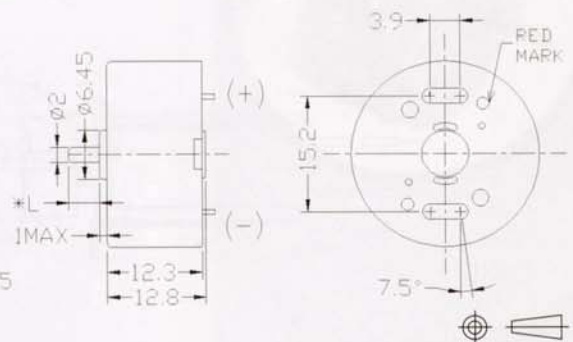
Typical Application :

- Audio and Visual Equipment
- Air Freshener
- Low Motion Display
- Joy Stick

DIRECTION OF ROTATION



WEIGHT : 22g (Approx)
UNIT:mm



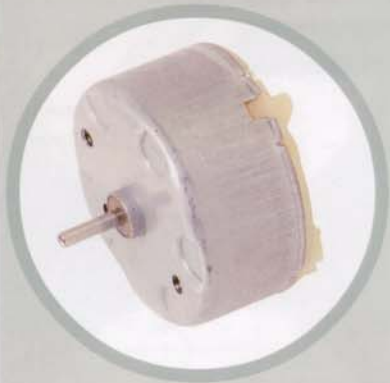
Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-300-14270	0.5 ~ 4.0	1.9	3500	0.035	2650	0.12	4	0.11	16.5
QX-RF-300-11440	0.7 ~ 5.0	2.0	2300	0.018	1800	0.06	2	0.038	9.6
QX-RF-300-11400	1.0 ~ 3.0	3.0	3650	0.02	2750	0.072	4	0.12	16.2

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-RF-500

Dimensions & Specification



Precious metal - brush motors

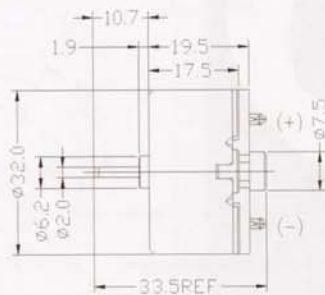
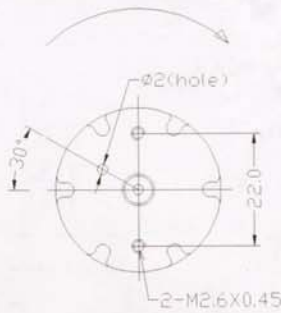
Output :

APPROX 0.03W ~ 1.5W

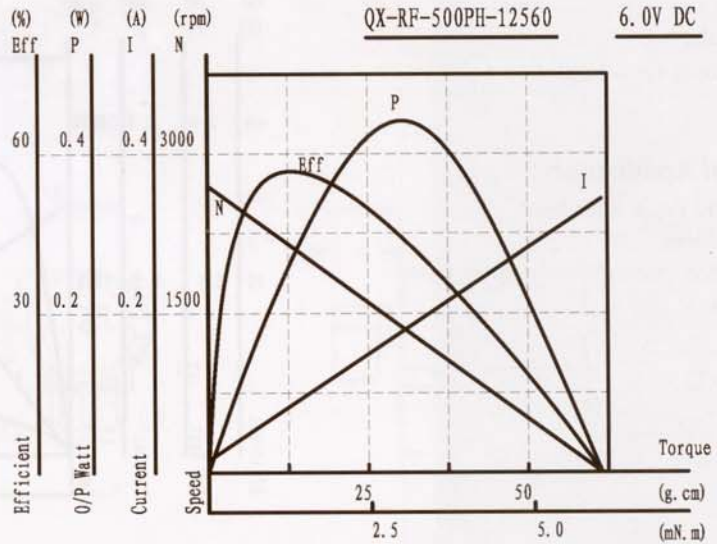
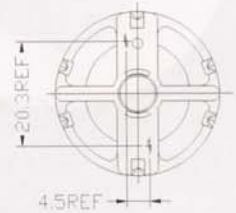
Typical Application :

- Audio and Visual Equipment
- VCR / CD player
- Air Freshener
- Low Motion Display

DIRECTION OF ROTATION



WEIGHT : 45g (Approx)
UNIT:mm



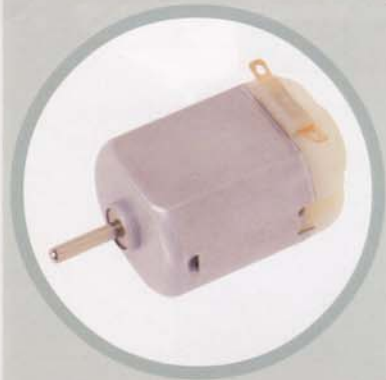
Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-500-14415	1.5 ~ 6.0	3.0	1800	0.022	1400	0.085	8	0.11	41
		6.0	3700	0.030	3000	0.13	14	0.43	84
QX-RF-500-12560	1.5 ~ 9.0	6.0	2700	0.025	2200	0.07	10	0.23	60
		9.0	4000	0.023	3300	0.10	12	0.41	91

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-FA-130

Dimensions & Specification



Metal - brush motors

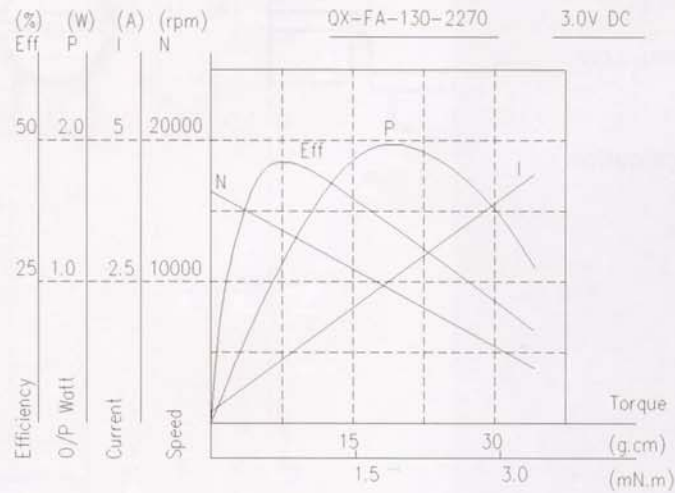
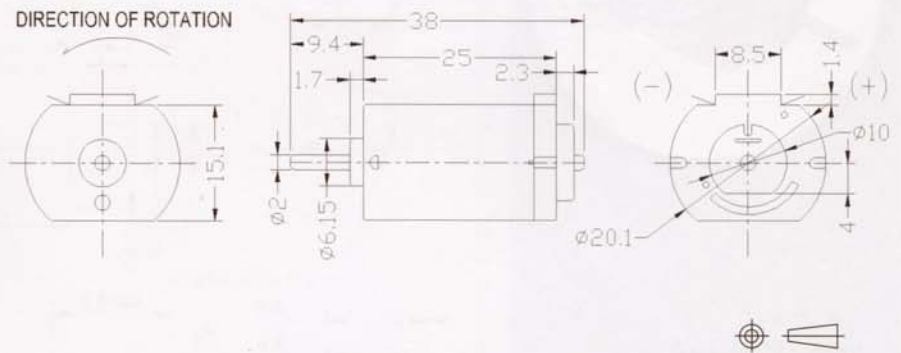
Output :

APPROX 0.2W ~ 2.5W

Typical Application :

- Toys & Models
- R/C Car
- Alarm Clock
- Mini B/O Fan
- Massager Vibrator

WEIGHT : 17g (Approx)
UNIT:mm



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FA-130-2270	1.5 ~ 3.0	1.5	9100	0.22	7000	0.66	5.85	0.43	26
		3.0	16400	0.25	13200	0.95	8.6	1.15	44
QX-FA-130-18100	1.5 ~ 3.0	1.5	6200	0.17	4500	0.41	4.82	0.23	18
		3.0	12300	0.18	9700	0.56	7.6	0.76	36
QX-FA-130-12240	1.5 ~ 6.0	3.0	5200	0.06	3800	0.15	6.00	0.23	22
QX-FA-130C-10300	6.0 ~ 12.0	12.0	18000	0.10	13760	0.26	9.20	1.30	39
QX-FA-130CS-10300	4.5 ~ 12.0	12.0	12700	0.08	9900	0.23	13.2	1.34	60

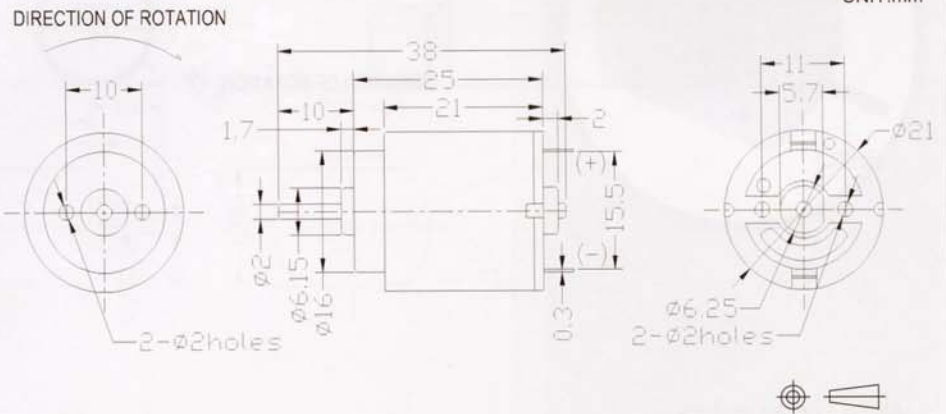
* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RE-140

Dimensions & Specification

WEIGHT : 19g (Approx)
UNIT:mm



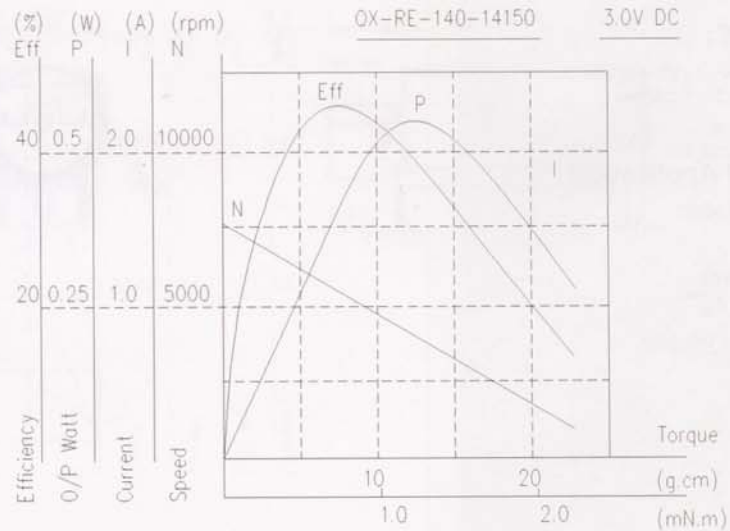
Metal - brush motors

Output :

APPROX 0.2W ~ 3.0W

Typical Application :

- Toys & Models
- Motorized Toys
- Massager



Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RE-140-2270	1.5 ~ 3.0	1.5	8100	0.215	6170	0.656	6.67	0.422	28.0
		3.0	14150	0.260	11280	0.984	10.64	1.231	52.5
QX-RE-140-18100	1.5 ~ 3.0	1.5	5700	0.140	4230	0.373	4.91	0.213	19.0
		3.0	10900	0.160	8550	0.562	8.00	0.701	37.0
QX-RE-140-14150	1.5 ~ 4.5	3.0	7600	0.100	5650	0.290	6.70	0.390	26.0
QX-RE-140-12240	3.0 ~ 6.0	3.0	4700	0.060	3200	0.150	5.10	0.170	18.0
QX-RE-140-10300	3.0 ~ 7.2	3.0	3800	0.050	2930	0.110	3.30	0.100	11.0

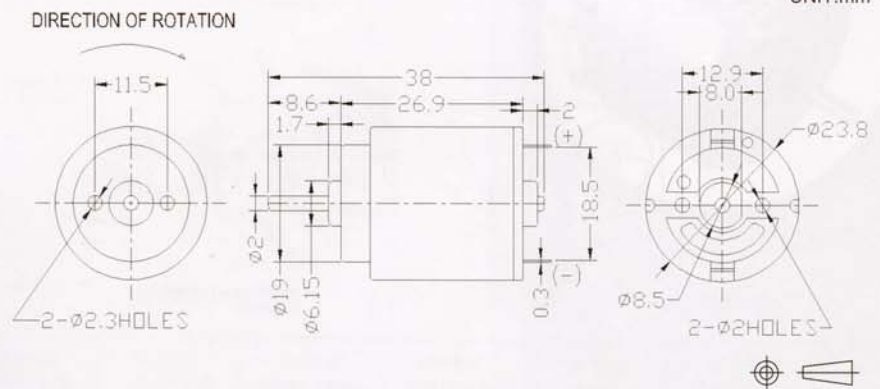
* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RE-260

Dimensions & Specification

WEIGHT : 28g (Approx)
UNIT:mm



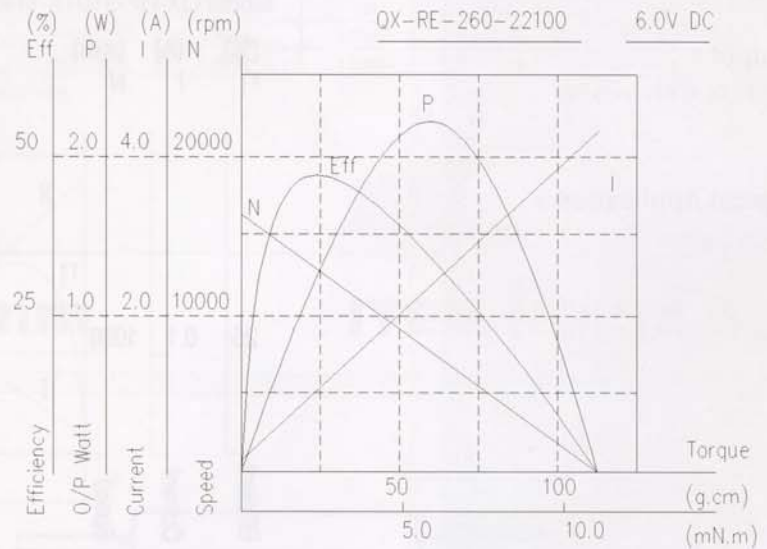
Metal - brush motors

Output :

APPROX 0.4W ~ 4.0W

Typical Application :

- Toys & Models
- Motorized Toys
- Hair Dryer
- Massager



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RE-260-2670	1.5 ~ 3.0	1.5	6300	0.180	5050	0.640	10.0	0.520	50
		3.0	12300	0.260	10100	0.970	15.0	1.550	87
QX-RE-260-18130	1.5 ~ 3.0	1.5	3300	0.08	2500	0.230	6.10	0.160	25
		3.0	6900	0.110	5500	0.360	9.90	0.550	48
QX-RE-260-22100	3.0 ~ 6.0	6.0	15800	0.190	12500	0.930	19.0	1.200	115
QX-RE-260C-2670	4.5	4.5	18300	0.320	15100	1.428	21.7	3.362	125
QX-RE-260C-08450	6.0 ~ 24.0	12.0	7800	0.060	5800	0.115	9.81	0.582	38

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-RF-310

Dimensions & Specification



Precious metal - brush motors

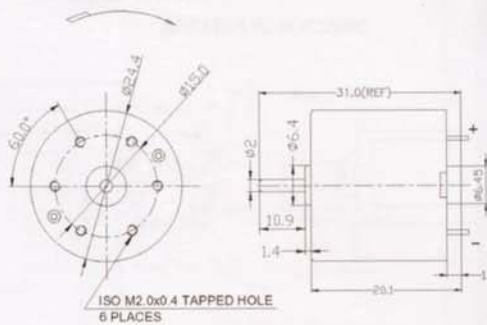
Output :

APPROX 0.04W ~ 0.8W

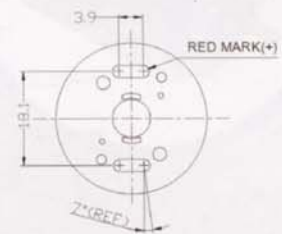
Typical Application :

CD/DVD player

DIRECTION OF ROTATION



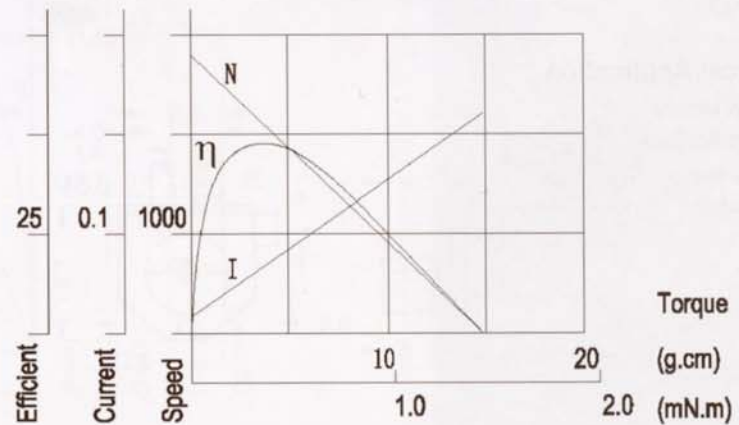
UNIT:mm



Model:QX-RF-310TA-11400

Voltage:2.5V DC

(%) (A) (rpm)
 η I N



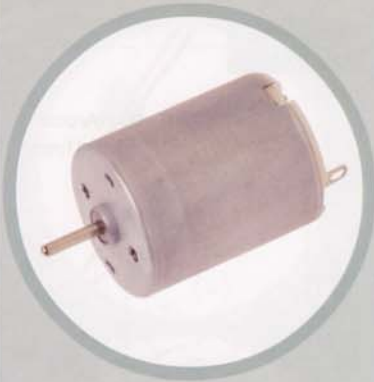
Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency			At Stall	
	Operating Range(V)	Nominal (V)	Speed (r.p.m)	Current (A)	Speed (r.p.m)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RF-310TA-11400	1.0 ~ 6.0	2.5	2800	0.017	2200	0.060	3.2	0.072	15

* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-RE-280

Dimensions & Specification



Metal - brush motors

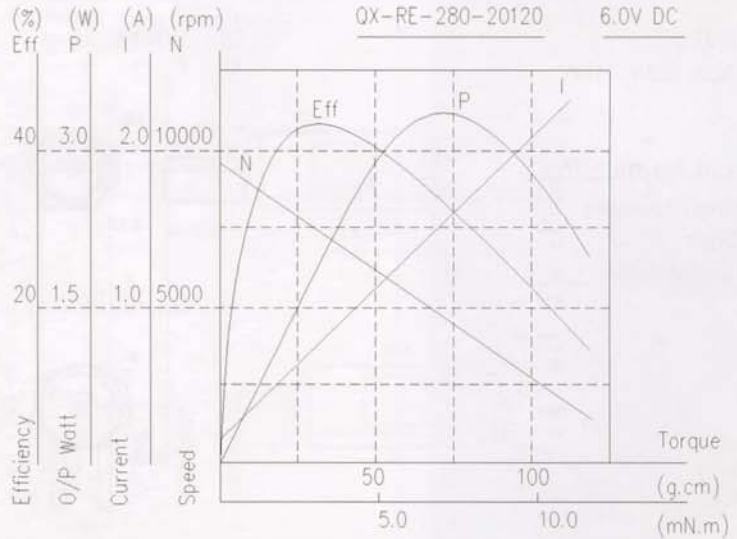
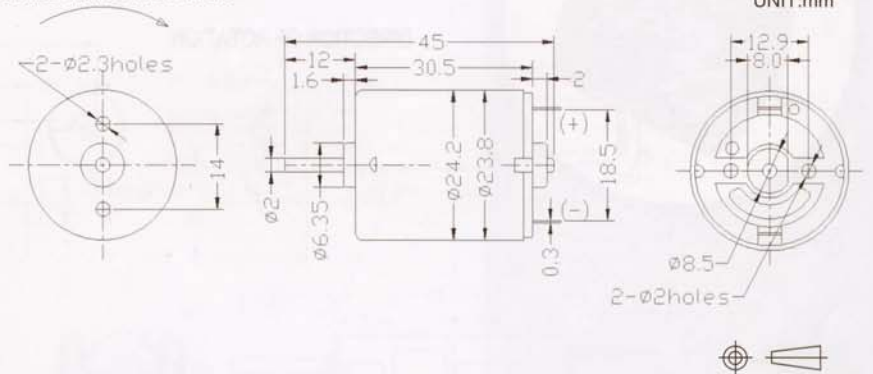
Output :

APPROX 0.8W ~ 4.5W

Typical Application :

- Toys & Models
- Motorized Plastic Model
- Household Products
- Massager

DIRECTION OF ROTATION



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RE-280-2865	1.5 ~ 3.0	1.5	4600	0.140	3750	0.525	11.53	0.443	62
		3.0	9200	0.170	7800	0.854	20.00	1.596	130
QX-RE-280-20120	3.0 ~ 6.0	3.0	5000	0.090	4100	0.326	13.30	0.559	75
		6.0	9800	0.120	6250	0.600	25	1.650	150
QX-RE-280S-2865	1.5 ~ 4.5	3.0	7100	0.180	5900	0.880	26	1.570	170
QX-RE-280C-2485	4.5 ~ 7.2	7.2	16800	0.210	14250	1.180	33.30	4.870	220
QX-RE-280CS-09400	12 ~ 24	24	9200	0.040	7570	0.160	29.20	2.280	165

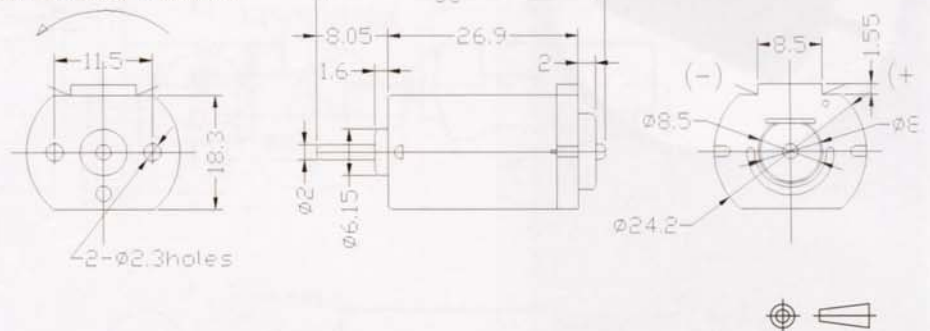
* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。

QX-FC-260

Dimensions & Specification


 WEIGHT : 28g (Approx)
 UNIT:mm

DIRECTION OF ROTATION



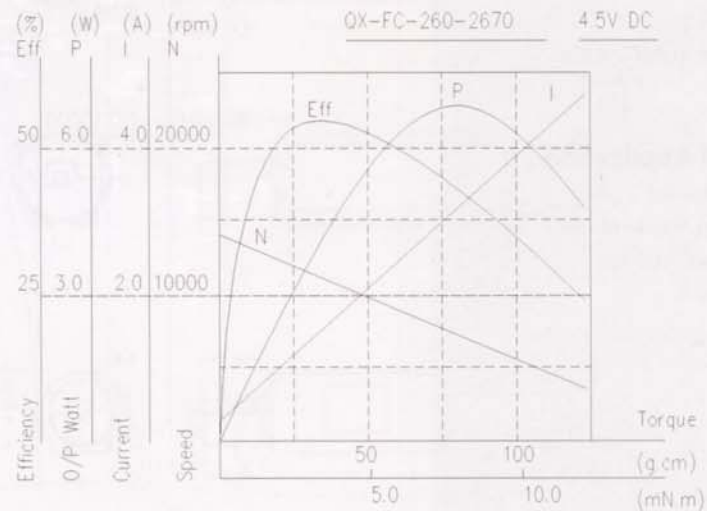
Carbon - brush motors

Output :

APPROX 0.3W ~ 18W

Typical Application :

- Household Appliance
- Hair Dryer
- Door Lock Actuator

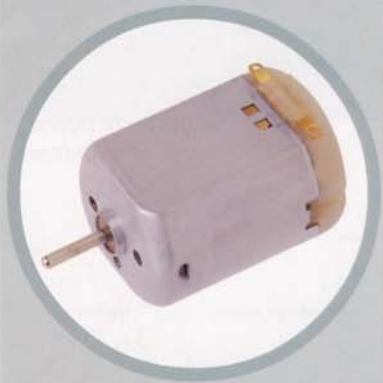

 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FC-260-2670	3 ~ 6	4.5	14000	0.27	11600	1.33	29	3.45	180
QX-FC-260-10300	6 ~ 26	24	17300	0.07	14100	0.31	29	4.19	158
QX-FC-260-12250	6 ~ 28	24	20000	0.10	16700	0.50	35	6.0	210

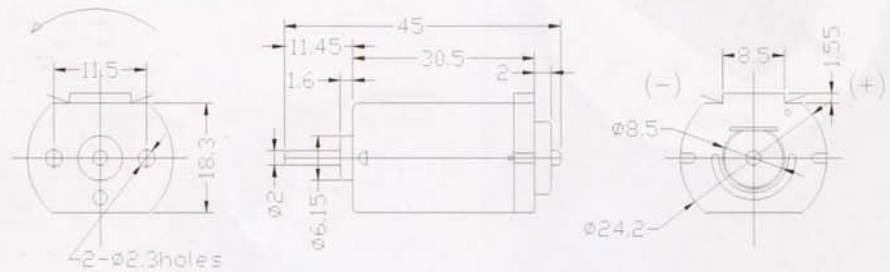
* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客户要求設定。

QX-FC-280

Dimensions & Specification

 WEIGHT : 35g (Approx)
 UNIT:mm


DIRECTION OF ROTATION

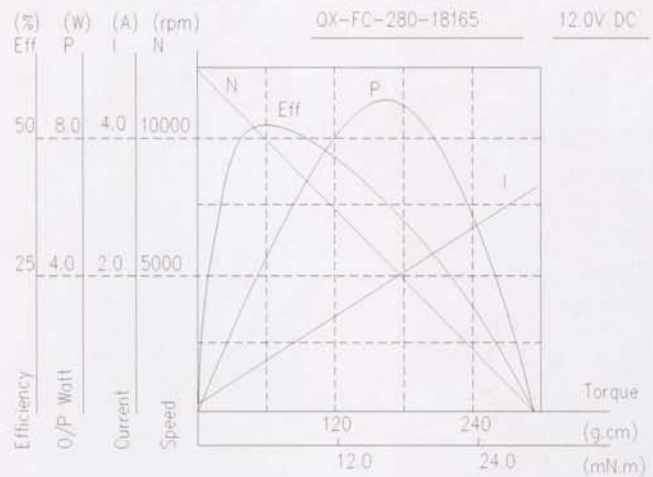


Carbon - brush motors

Output :

APPROX 0.3W ~ 23W

Typical Application :

 House Appliance
 Hair Clipper
 Door Lock Actuator

 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-FC-280-4523	1.2 ~ 1.5	1.25	9100	0.65	7300	2.50	27	2.00	135
QX-FC-280-20120	3 ~ 4.5	4.5	8400	0.09	7000	0.45	16	1.16	98
QX-FC-280-18165	10 ~ 15	12	12400	0.10	10700	0.51	35	3.84	260
QX-FC-280-16200	10 ~ 15	12	10000	0.07	8800	0.31	25	2.45	220

* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

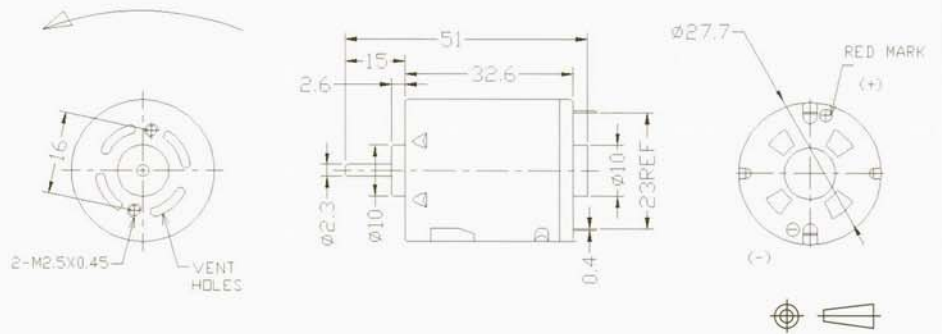
QX-RS-360 / 365

Dimensions & Specification



WEIGHT : 50g (Approx)
UNIT:mm

DIRECTION OF ROTATION



Carbon - brush motors

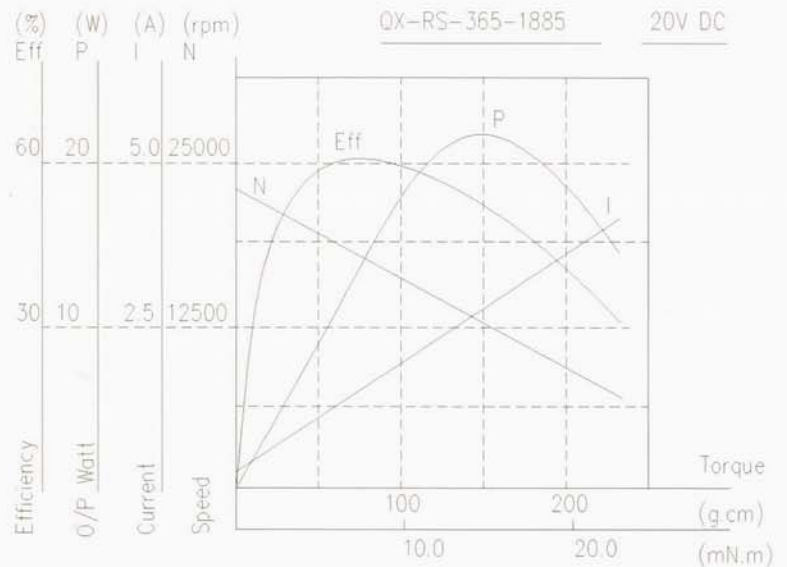
Output :

APPROX 1.0W ~ 40W

Typical Application :

- Household Appliance
- Corn Popper
- Hair Dryer
- Massager Vibrator
- Copy Machine

* Plastic and metal end-cap available



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

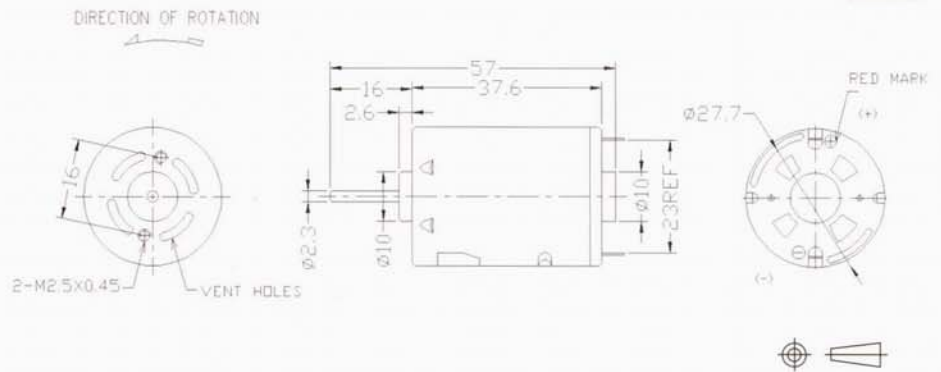
Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RS-360-4528	1.5 ~ 6	2.4	11000	1.10	8500	2.60	42	3.60	155
QX-RS-360-2885	3 ~ 9	7.2	12400	0.38	11000	1.40	48	5.70	410
QX-RS-360-10500	12 ~ 25	24	7200	0.06	5600	0.20	46	2.64	220
QX-RS-365-1885	6 ~ 20	20	23200	0.24	18900	1.05	65	12.6	380
QX-RS-365-12190	6.8 ~ 36	35	14500	0.13	12220	0.38	66	8.20	425

* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RS-380 / 385

Dimensions & Specification

 WEIGHT : 70g (Approx)
 UNIT:mm


Carbon - brush motors

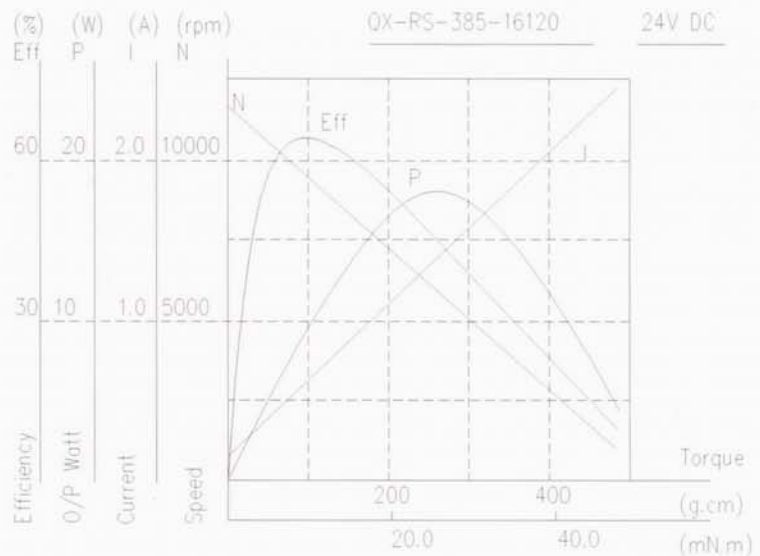
Output :

APPROX 1.0W ~ 55W

Typical Application :

- Household Products
- Hair Dryer
- Copy Machine
- Massager

* Plastic and metal end-cap available



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency			Stall	
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RS-380-4032	2.4 ~ 9.0	3.6	12000	1.00	10000	3.50	65.0	6.67	360
QX-RS-380-3270	4.5 ~ 12	12	15200	0.34	13600	1.90	100	13.9	348
QX-RS-380-12300	12 ~ 24	24	8000	0.07	6800	0.26	50.0	3.50	360
QX-RS-385-2073	9 ~ 24	20	18300	0.21	15800	0.90	75.0	12.2	550
QX-RS-385-16120	12 ~ 24	24	11815	0.12	9800	0.58	87.2	8.70	508

* Motor specification and shaft length can be tailor-made according to customer's requirements.

馬達性能及軸支長短可按客戶要求設定。

QX-RS-540 / 545

Dimensions & Specification



Carbon - brush motors

Output :

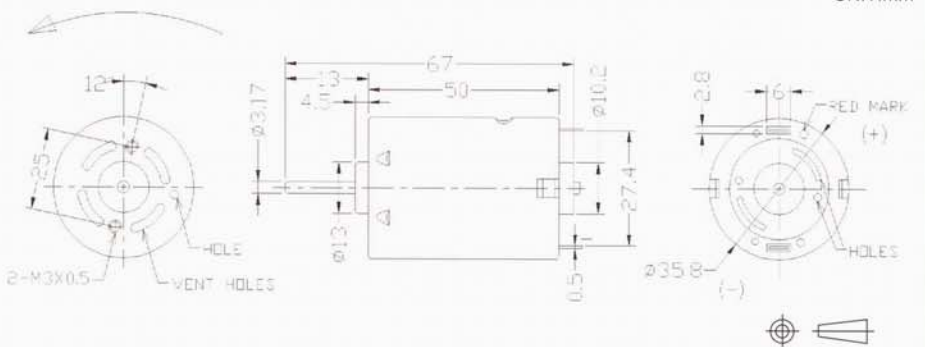
APPROX 2.0W ~ 65W

Typical Application :

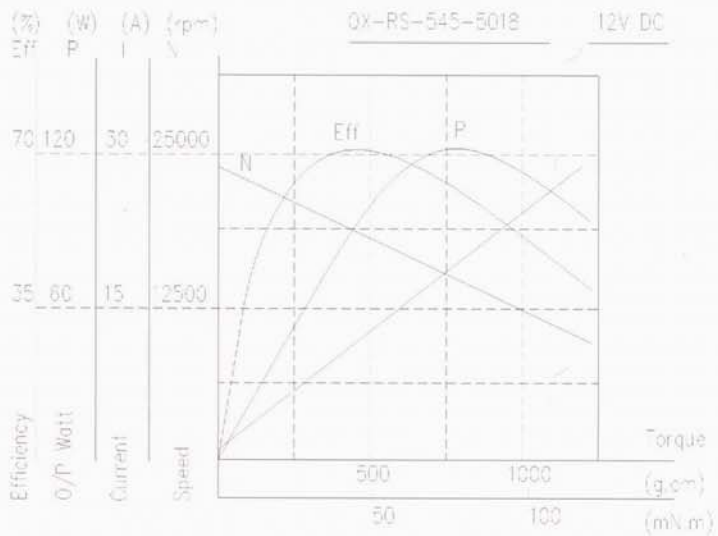
- Massager
- Cordless Power Tools
- Vacuum Cleaner
- Printing Machine Pump
- Radio Control Model
- Ride-on Toy

* Plastic and metal end-cap available

DIRECTION OF ROTATION



WEIGHT : 160g (Approx)
UNIT:mm



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RS-540-7516	2.4 ~ 4.5	3.6	20200	2.90	16300	12.2	154	257	800
QX-RS-540-5045	4.5 ~ 9.6	6.0	11600	0.82	9600	4.10	140	13.8	880
QX-RS-540-6035	3.6 ~ 7.2	3.6	9500	1.15	7700	4.91	125	9.87	660
QX-RS-540-7250	3.6 ~ 7.2	4.8	15400	2.00	13000	10.9	265	35.0	1700
QX-RS-545-5018	4.5 ~ 12	12	24000	1.30	20510	7.65	317	65.0	2180
QX-RS-545-18150	12 ~ 32	24	5600	0.12	4500	0.53	160	7.34	900

* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-RS-750 / 755

Dimensions & Specification

WEIGHT : 270g (Approx)

UNIT:mm



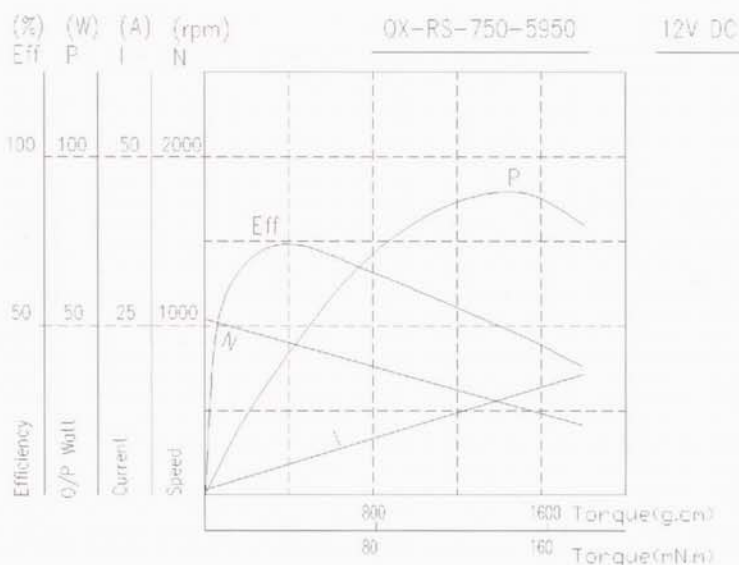
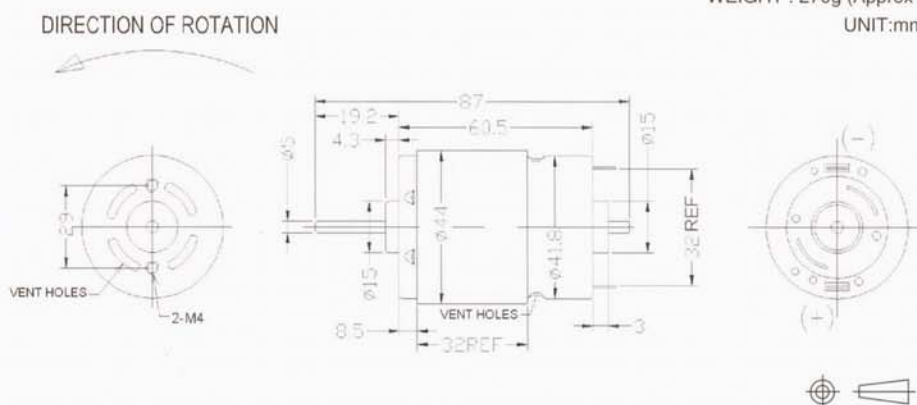
Carbon - brush motors

Output :

APPROX 5.0W ~ 90W

Typical Application :

- Drill and Screwdriver
- Cordless Power Tools
- Vacuum Cleaner
- Massager
- Rid-on Toy


 Remarks: Electrical characteristic for reference only (with $\pm 15\%$ tolerance)

Model	Voltage		Free Load		At Max. Efficiency				Stall
	Operating Range	Nominal	Speed (r/min)	Current (A)	Speed (r/min)	Current (A)	Torque (g.cm)	Output (w)	Torque (g.cm)
QX-RS-750-5950	6 ~ 18	12	10300	0.98	8700	5.30	483	43.2	3111
QX-RS-750-21125	18 ~ 30	24	4300	0.18	3400	0.76	282	10.1	1482
QX-RS-755-3570	12 ~ 30	24	8300	0.32	7110	1.92	455	33.2	3178
QX-RS-755-3950	12 ~ 24	12	5550	0.41	4670	2.17	341	16.4	2158

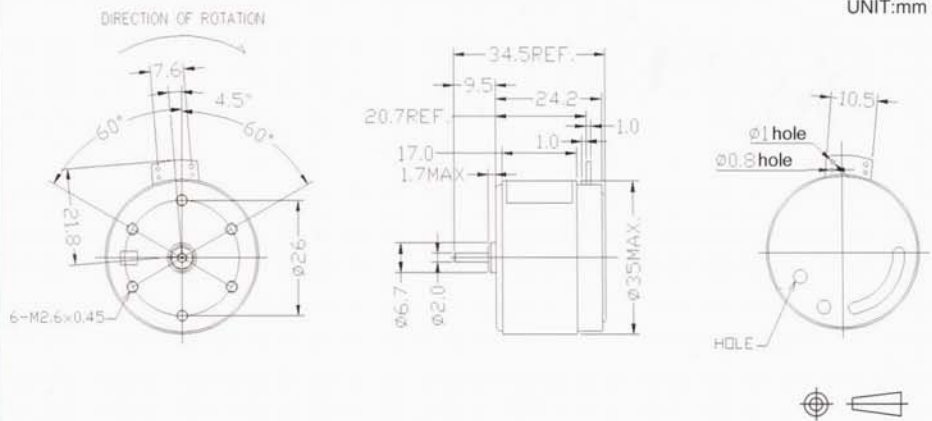
* Motor specification and shaft length can be tailor-made according to customer's requirements.
馬達性能及軸支長短可按客戶要求設定。

QX-EG-530

Dimensions & Specification

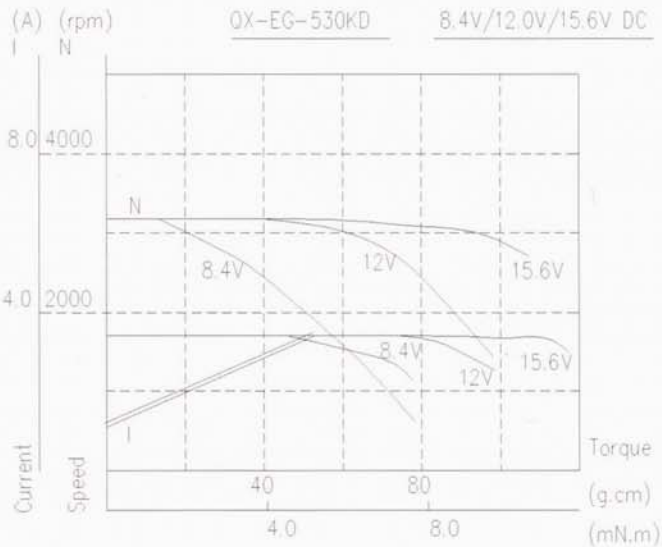


WEIGHT : 70g (Approx)
 UNIT:mm



Electronic governor motors

Typical Application :
 Audio and Visual Equipment
 Cassette Tape Recorder
 Car Cassette Player



Remarks: Electrical characteristic for reference only (with ±15% tolerance)

Model	Rated Voltage	Working Voltage	Rated Load		Rated Speed	Rated Load Current	Load Fluctuation(TYP)	Stall Torque
	(V)		g.cm	mN.m				
QX-EG-530-6F (6B)	4.2 ~ 7.5	6.0	8.0	0.78	2400±2%	132	9.0	38 at 4.2V
QX-EG-530-7F (7B)	5.0 ~ 9.0	7.5	8.0	0.78	2400±2%	115	9.0	45 at 5.0V
QX-EG-530-9F (9B)	6.0 ~ 11.0	9.0	8.0	0.78	2400±2%	92	9.0	50 at 6.0V
QX-EG-530-2F (2B)	8.4 ~ 15.0	12.0	8.0	0.78	2400±2%	73	9.0	60 at 8.4V

* Motor specification and shaft length can be tailor-made according to customer's requirements.
 馬達性能及軸支長短可按客戶要求設定。