



KOCO
Group

A VARIETY OF APPLICATIONS



PRECISION DC CORELESS MOTOR

1



BRUSHLESS DC MOTOR

2



ELECTRONIC SPEED CONTROLLER

3



PRECISION GEARMOTOR

4



PRECISION SERVO MOTOR

5



DC CORELESS MOTOR

6



FLAT DC MOTOR

7



DC CORE MOTOR

8



MINI STEP MOTOR

9



SONIC MOTOR

10





Overview of the FLAT DC MOTORS

	Motor No.	Dia x Length (max)	Max. Power	Page
1	2007RFN	20.00 x 7.20 mm	1.6 W	4
2	0720RFN	7.00 x 2.10 mm		5
3	0820RFN	8.00 x 2.70 mm		6
4	0827RFN	8.00 x 2.70 mm		6
5	0834RFN	8.00 x 2.70 mm		6
6	1020RFN	10.00 x 2.70 mm		7
7	1027RFN	10.00 x 2.70 mm		7
8	1030RFN	10.00 x 2.70 mm		7
9	1034RFN	10.00 x 2.70 mm		7
10	1234RFN	12.00 x 34.00 mm		8

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Product Introduction



FLAT DC MOTOR

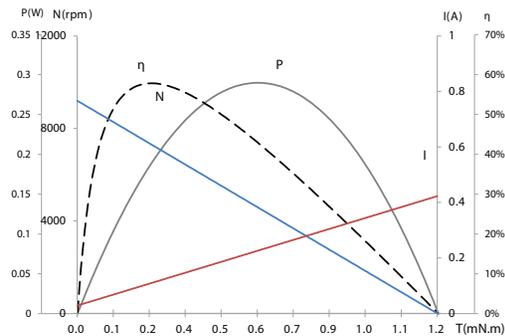
The flat DC motor features a unique and practical design structure. The motor was awarded second prize for technological progress in a contest held in Shenzhen and was also granted a national patent. The motor is well suited for electronic products with limited space. Due to its small size and available built-in vibrator, the product is widely used in wearable health care products, mobile phones, and tablet PC's.



Precious Metal Commutation · 2007RFN

Motor Characteristics			2007RFN01-40-3.0	2007RFN52-40-3.0
1	Voltage	V	3	3
2	Terminal resistance	Ω	7.1	1.6
3	No-load speed	rpm	9200	19000
4	No-load current	mA	28	80
5	Stall torque	mNm	1.2	3.2
6	Stall current	mA	420	1800
7	Load torque	mNm	0.3	0.3
8	Load speed	rpm	6850	17000
9	Load current	mA	130	300
10	Max. output power	W	0.29	1.6
11	Max. efficiency	%	58	81.4
12	Back-EMF constant	mV/rpm	0.30	0.15
13	Torque constant	mNm/A	3.00	1.90
14	Speed/torque gradient	rpm/mNm	7667	5938
15	Rotor inertia	gcm ²	0.40	0.40
16	Weight	g	8.7	8.7
17	Operating temperature range	°C	-20 ~ +80	-20 ~ +80

Characteristics Curve Model 2007RFN01-40-3.0



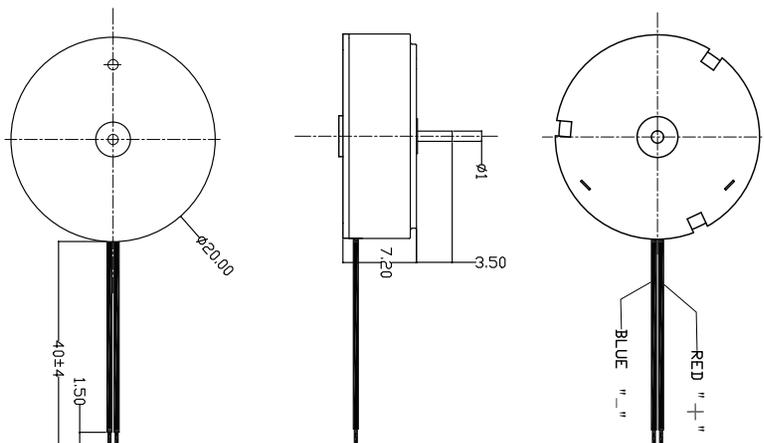
Applications

Mini electronic products, toys, etc.

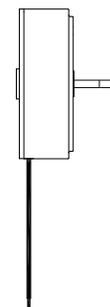
Options

Lead wires length
 Special coils

Dimension (mm) · 2007RFN



Approx. actual size



Precious Metal Commutation · 0720RFN

Motor Characteristics		0720RFN31-12dp31-3.0	
1	Voltage	V	3
2	Terminal resistance	Ω	54/100
3	Speed	rpm	10000
4	Current	mA	70
5	Starting voltage	V	1.5
6	Stall current	mA	90
8	Operating temperature range	$^{\circ}\text{C}$	-20 ~ +70

Approx. actual size



Applications

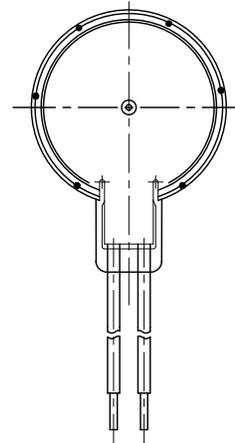
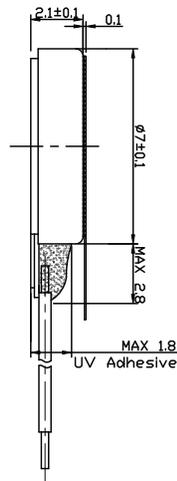
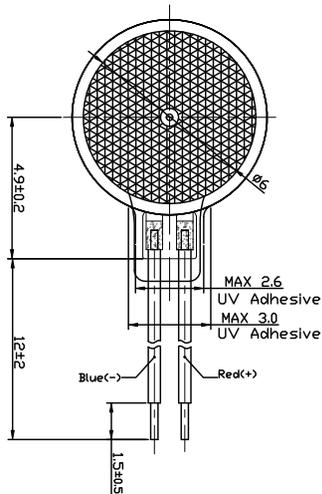
Wearable devices,
 health care equipment,
 etc.

Options

Lead wires length
 Special coils

Dimension (mm)

Model 0720RFN31-12dp31-3.0



Precious Metal Commutation · 0820RFN/0827RFN/0834RFN

Motor Characteristics			0820RFN31-8d-3.0	0827RFN31-20d-3.0	0827RFN32-20d-3.0	0834RFN31-8d-3.0
1	Voltage	V	3	3	3	3
2	Terminal resistance	Ω	30/60	31/62	55/110	28/54
3	Speed	rpm	11000	11000	9000	11000
4	Current	mA	70	70	40	70
5	Starting voltage	V	1.5	1.7	1.7	1.7
6	Stall current	mA	90	80	50	90
8	Operating temperature range	°C	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70

Approx. actual size



Applications

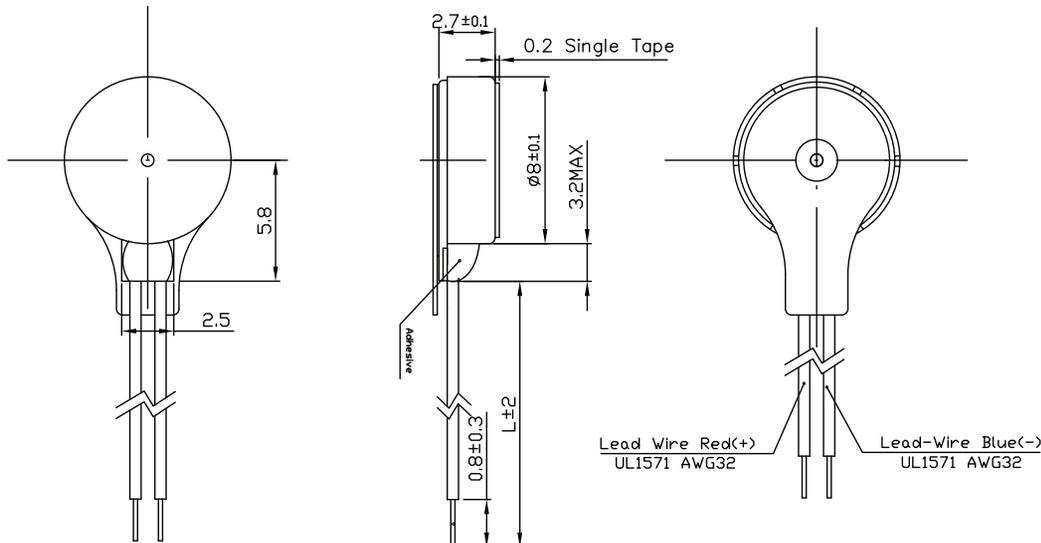
Wearable devices,
 health care equipment,
 etc.

Options

Lead wires length
 Special coils

Dimension (mm)

0827RFN31-20d3P4-3.0



Precious Metal Commutation ·

1020RFN/1027RFN/1030RFN/1034RFN

Motor Characteristics			1020RFN31-17d-3.0	1027RFN31-17d-3.0	1030RFN31-17d-3.0	1034RFN31-17d-3.0
1	Voltage	V	3	3	3	3
2	Terminal resistance	Ω	30/58	35/66	38/71	32/63
3	Speed	rpm	13500	13500	13500	13500
4	Current	mA	60	55	55	70
5	Starting voltage	V	2.3	2.3	2.3	2.3
6	Stall current	mA	95	90	80	95
8	Operating temperature range	°C	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70

Approx. actual size



Applications

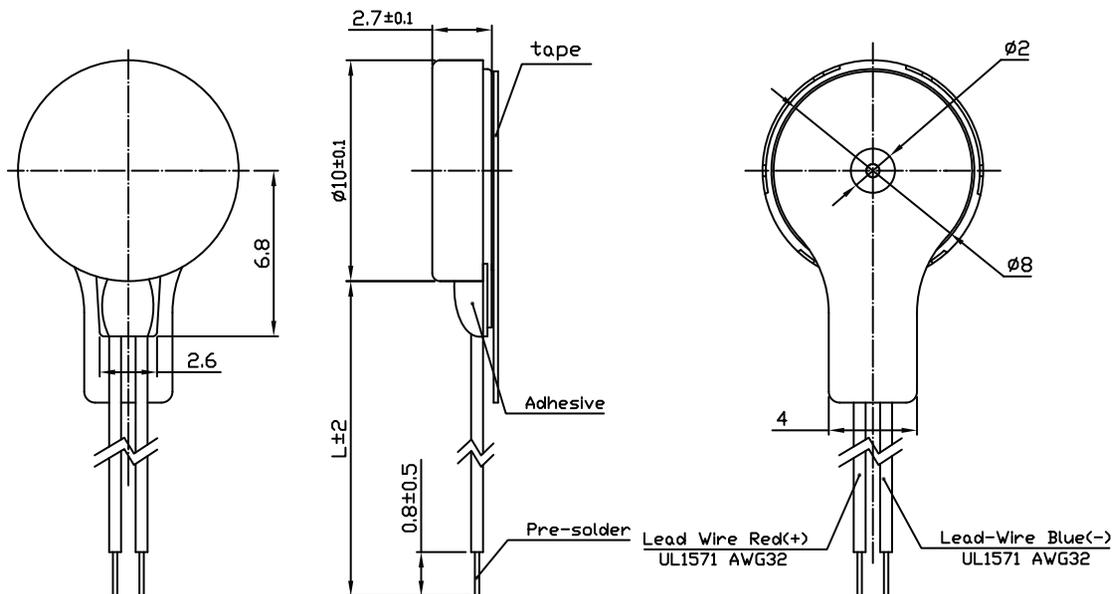
Wearable devices, mobile phones, tablet PCs, health care equipment, etc.

Options

Lead wires length
 Special coils

Dimension (mm)

1027RFN31-17d3-3.0



Precious Metal Commutation · 1234RFN

Motor Characteristics		1234RFN31-110d-3.0	
1	Voltage	V	3
2	Terminal resistance	Ω	32/59
3	Speed	rpm	11000
4	Current	mA	60
5	Starting voltage	V	1.7
6	Stall current	mA	90
8	Operating temperature range	$^{\circ}\text{C}$	-20 ~ +70

Approx. actual size



Applications

Interphone, gamepad, wearable devices, tablet PCs, health care equipment, etc.

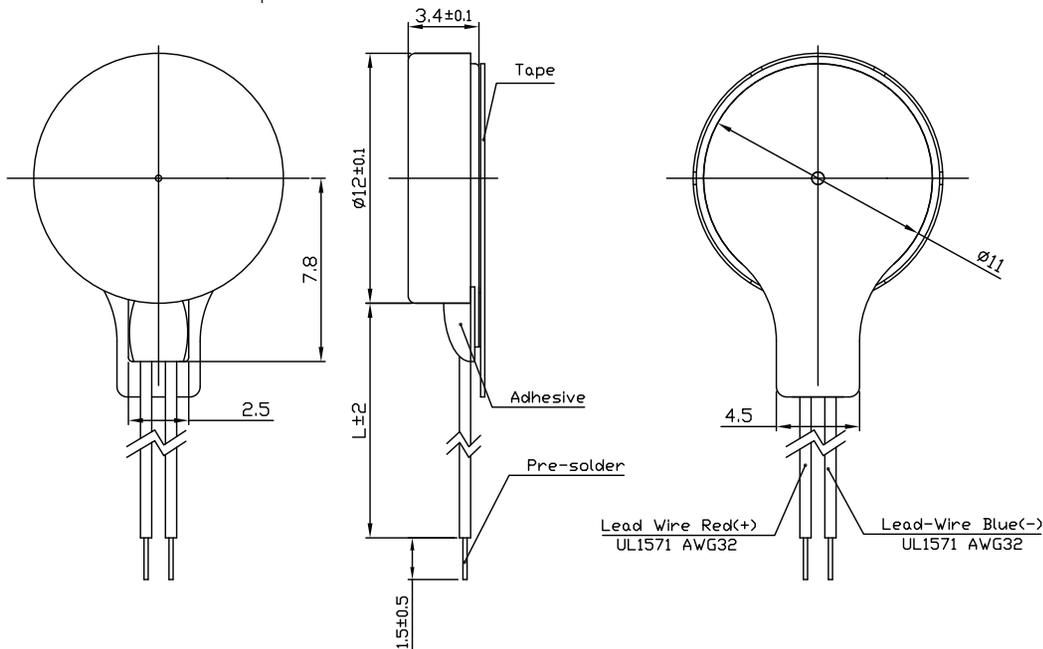
Options

Lead wires length

Special coils

Dimension (mm)

Model 0720RFN31-12dp31-3.0



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