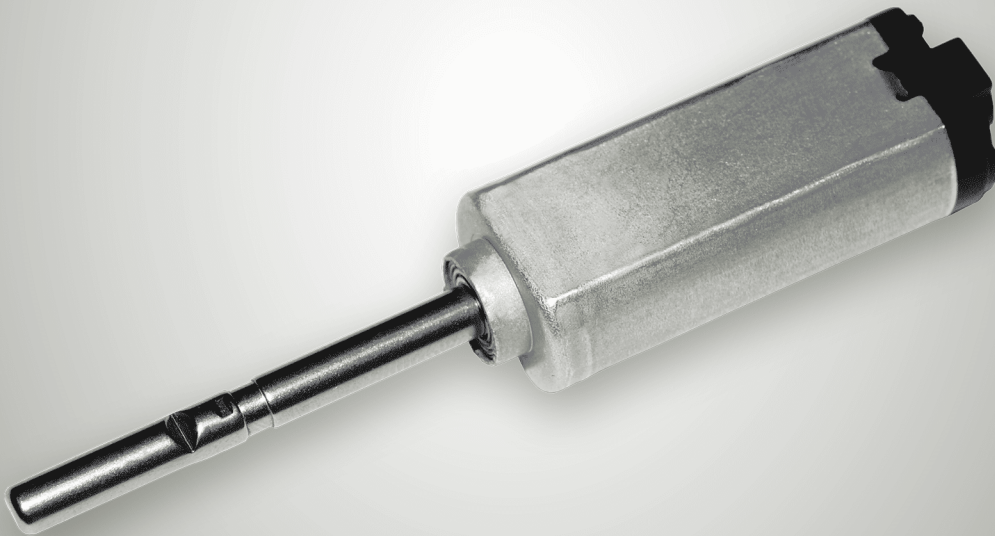




Brushed DC Motors – Sonic Motors

Brushed DC Motors – Sonic Motors

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1339ZDF

13mm DC sonic motor


<https://www.kocomotion.de/produkt/1339zdf/>

Produkte:

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1339ZDF-1-L2-3.7

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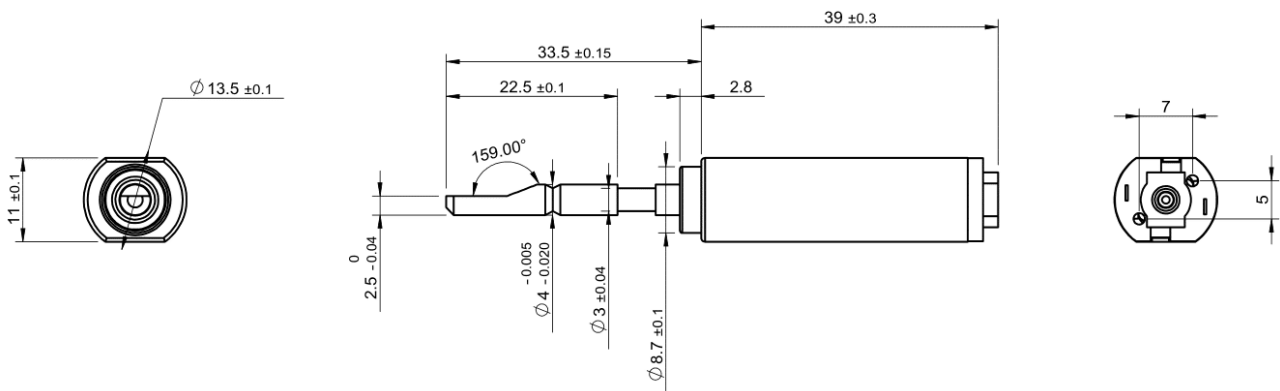
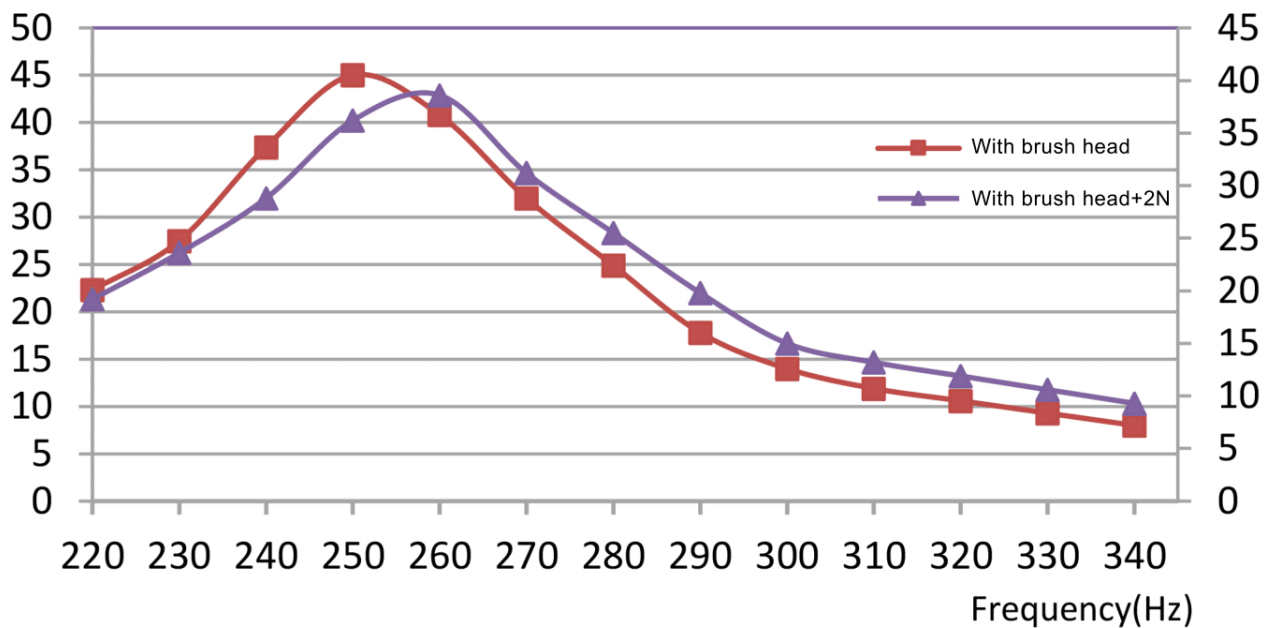
1339ZDF-1-L3-2.5

6

1339ZDF-1-L4-5.0

7

Angel(°) Frequency-angle curve



1339ZDF-1-L2-3.7

13mm DC sonic motor



<https://www.kocomotion.de/produkt/1339zdf-1-l2-3-7/>



Specification	
Voltage	3.7 V
Resistance	4 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	90 mA
Starting torque	11 mNm
Starting current	0.9 A
Rated load (Brush head)	3.8 g
Load vibration frequency	31200 Times / minute
Load current	400 mA
Rotor inertia	0.75 g·cm ²
Weight	19 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1339ZDF-1-L3-2.5

13mm DC sonic motor



<https://www.kocomotion.de/produkt/1339zdf-1-l3-2-5/>



Specification	
Voltage	2.5 V
Resistance	4 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	75 mA
Starting torque	8 mNm
Starting current	0.7 A
Rated load (Brush head)	3.8 g
Load vibration frequency	31200 Times / minute
Load current	330 mA
Rotor inertia	0.75 g·cm ²
Weight	19 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1339ZDF-1-L4-5.0

13mm DC sonic motor



<https://www.kocomotion.de/produkt/1339zdf-1-l4-5-0/>



Specification	
Voltage	5.0 V
Resistance	4 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	110 mA
Starting torque	15 mNm
Starting current	1.2 A
Rated load (Brush head)	3.8 g
Load vibration frequency	31200 Times / minute
Load current	480 mA
Rotor inertia	0.75 g·cm ²
Weight	19 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1434ZDF

14mm DC sonic motor



<https://www.kocomotion.de/produkt/1434zdf/>

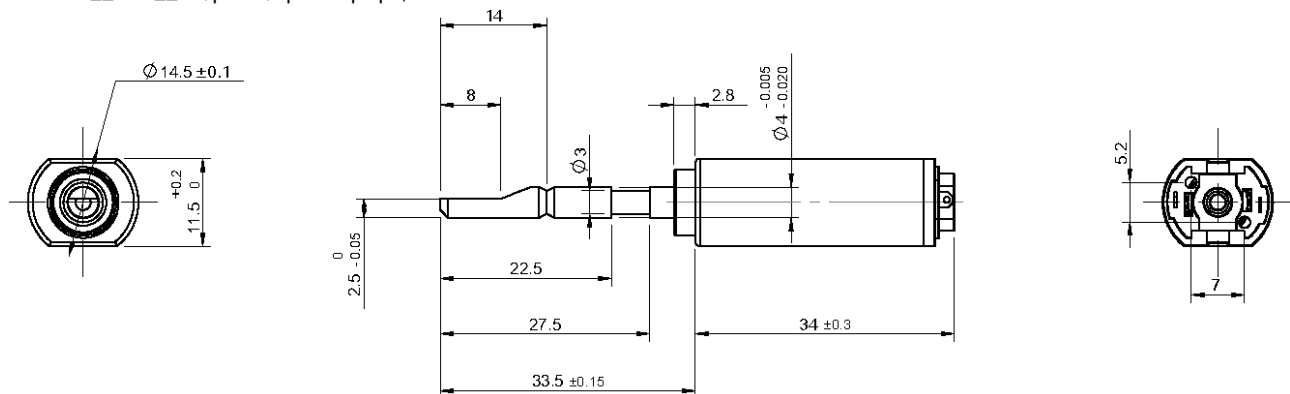


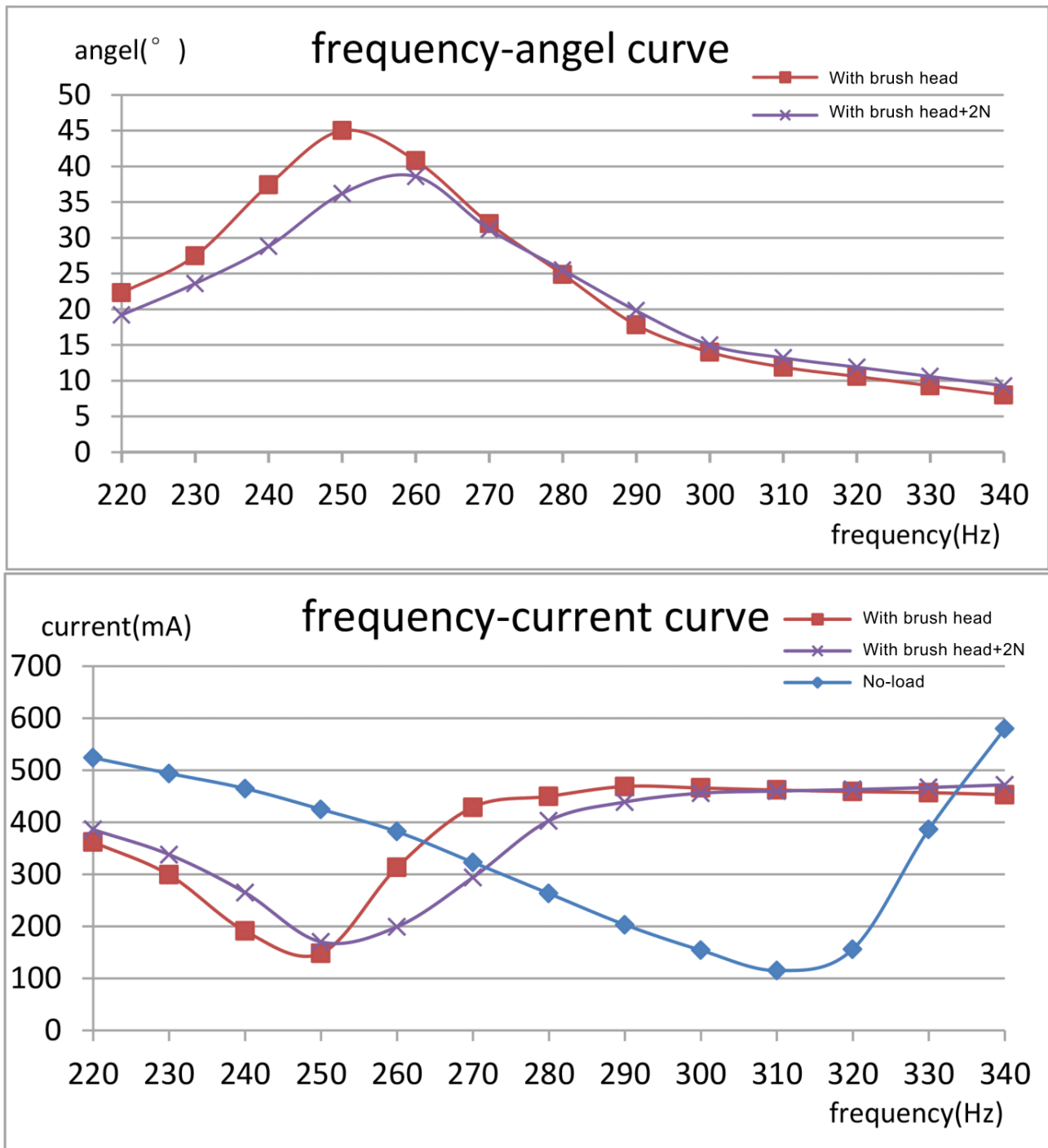
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include __DIR__ . "/parts/spacer.php";





1434ZDF-1-L1-3.7

14mm DC sonic motor



<https://www.kocomotion.de/produkt/1434zdf-1-l1-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.8 Ω
Operating frequency range	220-360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	90 mA
Starting torque	12 mNm
Starting current	1.0 A
Rated load (Brush head)	3.8 gmm
Load vibration frequency	31200 Times / minute
Load current	400 mA
Rotor inertia	1.0 g·cm ²
Weight	19 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1434ZDF-ET-L15-3.7

14mm DC sonic motor



<https://www.kocomotion.de/produkt/1434zdf-et-l15-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.8 Ω
Operating frequency range	220-360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	95 mA
Starting torque	12 mNm
Starting current	1.0 A
Rated load (Brush head)	3.8 gmm
Load vibration frequency	31200 Times / minute
Load current	400 mA
Rotor inertia	1.0 g·cm ²
Weight	19 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1434ZDF-1-L2-2.5

14mm DC sonic motor



<https://www.kocomotion.de/produkt/1434zdf-1-l2-2-5/>



Specification	
Voltage	2.5 V
Resistance	3.8 Ω
Operating frequency range	220-360 Hz
No-load vibration frequency	39600 Times / minute
No-load current	80 mA
Starting torque	8.5 mNm
Starting current	0.7 A
Rated load (Brush head)	3.8 gmm
Load vibration frequency	31200 Times / minute
Load current	340 mA
Rotor inertia	1.0 g·cm ²
Weight	19 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1538ZDF

15mm DC sonic motor

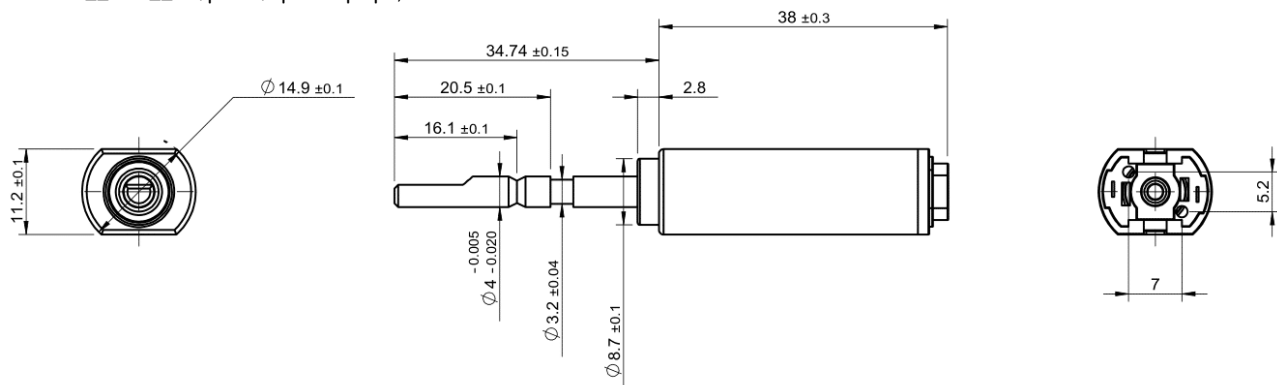


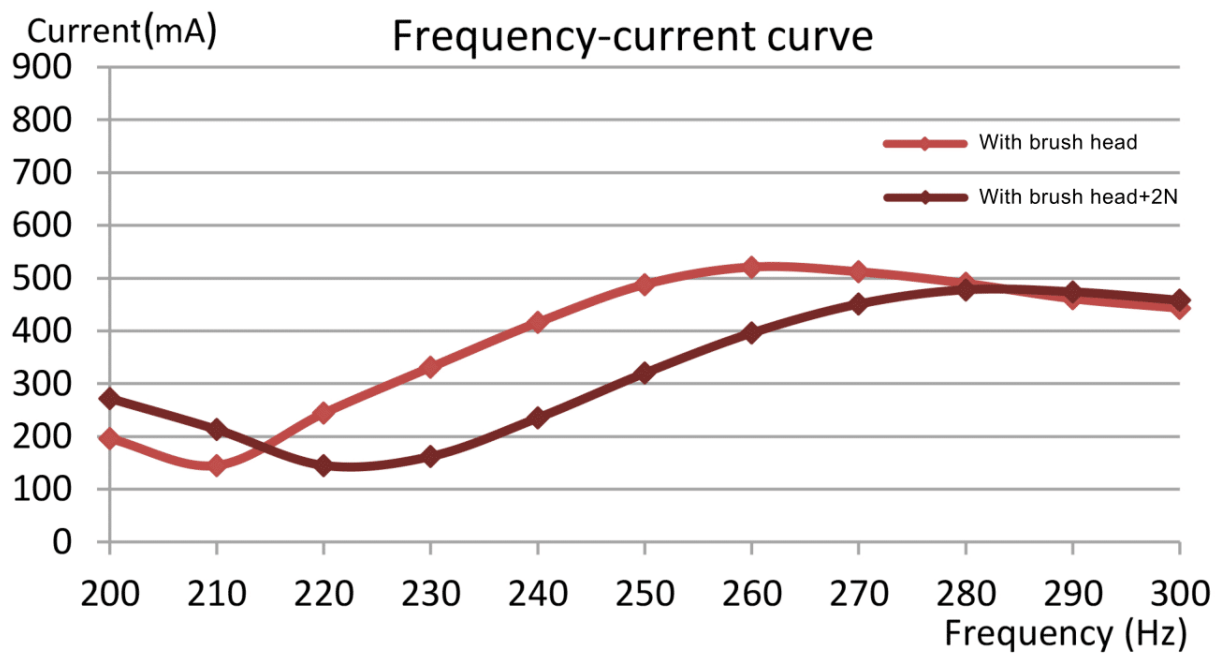
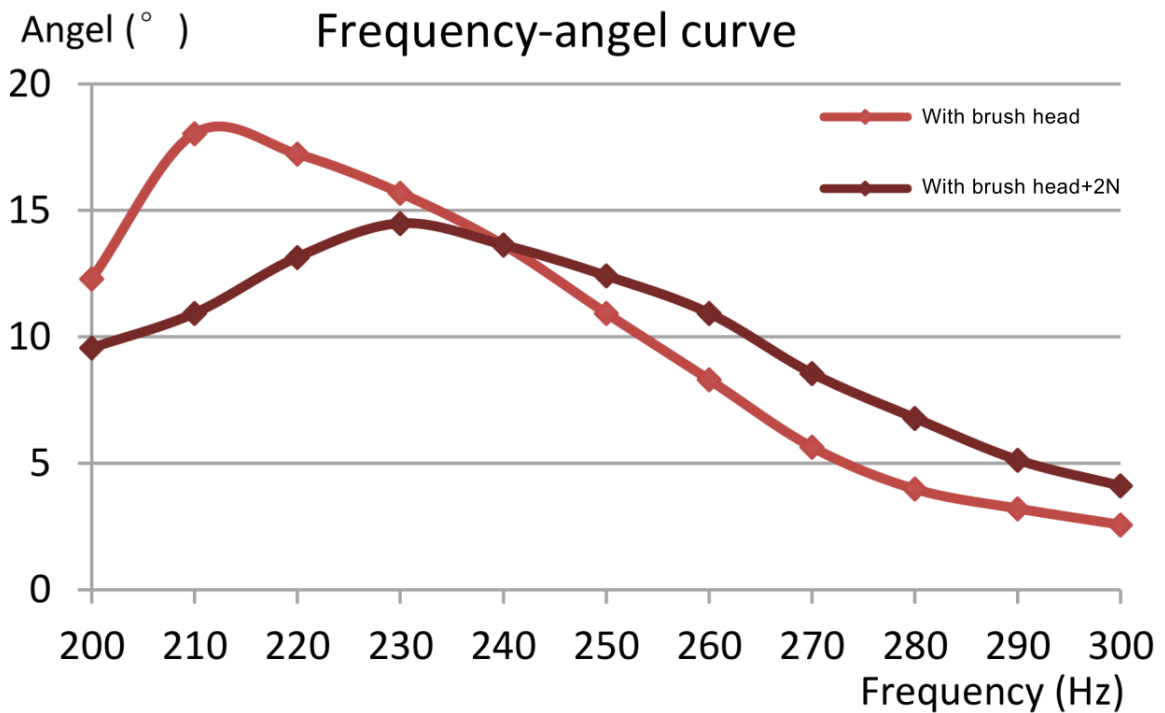
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include __DIR__ . "/parts/spacer.php";





1538ZDF-1-L4-3.7

15mm DC sonic motor



<https://www.kocomotion.de/produkt/1538zdf-1-l4-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.8 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	40800 Times / minute
No-load current	90 mA
Starting torque	13 mNm
Starting current	0.9 A
Rated load (Brush head)	3.9 g
Load vibration frequency	31200 Times / minute
Load current	350 mA
Rotor inertia	1.1 g·cm ²
Weight	20 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1538ZDF-ET-L9-3.7

15mm DC sonic motor



<https://www.kocomotion.de/produkt/1538zdf-et-l9-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.8 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	40800 Times / minute
No-load current	95 mA
Starting torque	13 mNm
Starting current	0.9 A
Rated load (Brush head)	3.9 g
Load vibration frequency	31200 Times / minute
Load current	380 mA
Rotor inertia	1.1 g·cm ²
Weight	20 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1538ZDF-1-L1-2.5

15mm DC sonic motor



<https://www.kocomotion.de/produkt/1538zdf-1-l1-2-5/>



Specification	
Voltage	2.5 V
Resistance	3.8 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	40800 Times / minute
No-load current	90 mA
Starting torque	9 mNm
Starting current	0.7 A
Rated load (Brush head)	3.9 g
Load vibration frequency	31200 Times / minute
Load current	320 mA
Rotor inertia	1.1 g·cm ²
Weight	20 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1640ZDF

16mm sonic electric toothbrush motor



<https://www.kocomotion.de/produkt/1640zdf/>



Produkte:

Seite

1640ZDF-1-L2-3.7

20

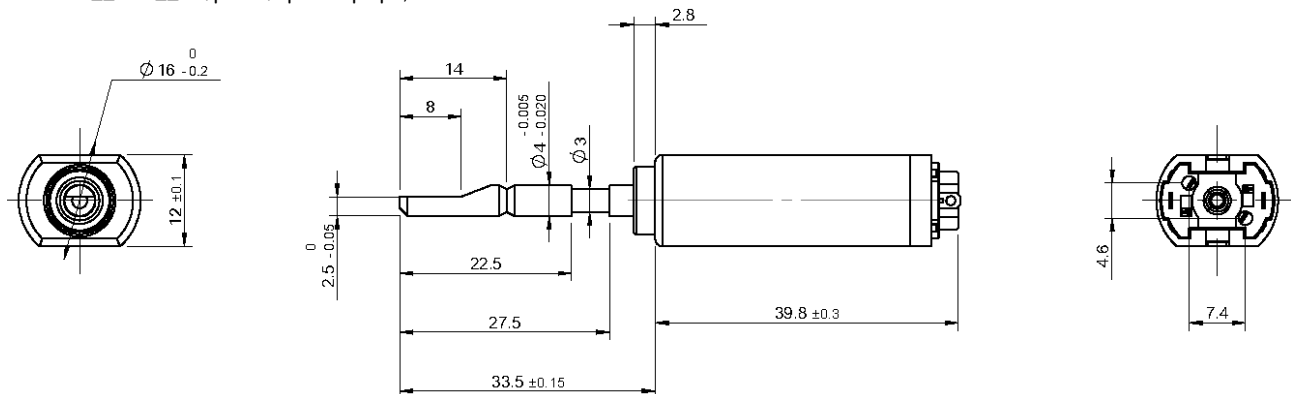
1640ZDF-T-1A-L36-3.7

21

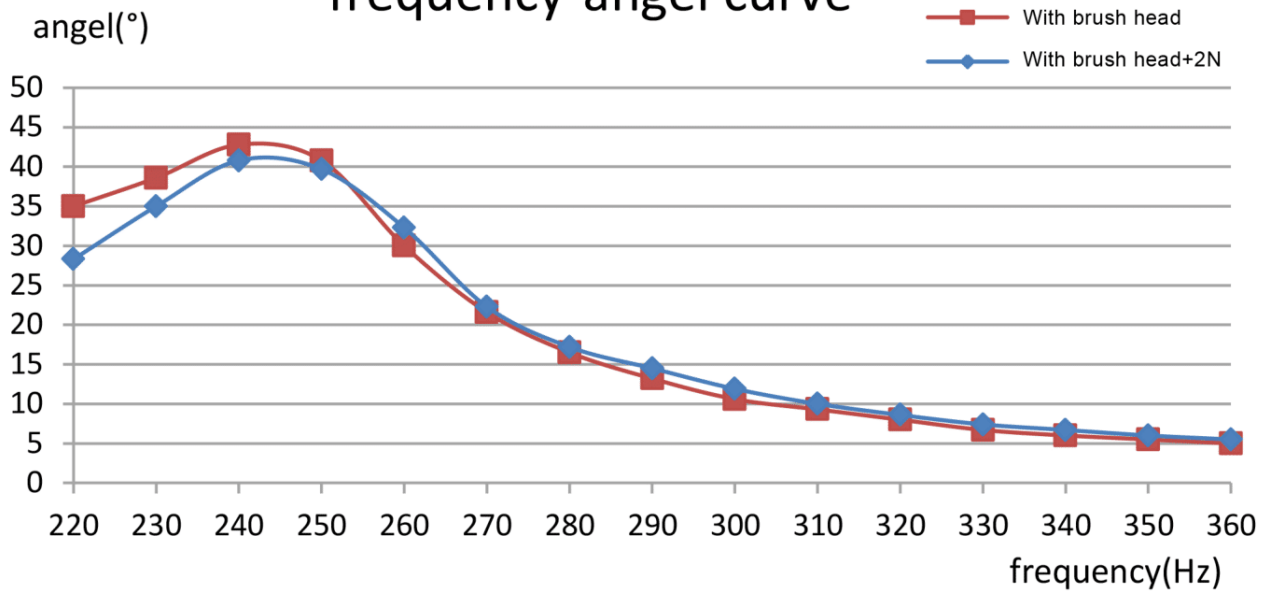
1640ZDF-ET-L4-3.7

22

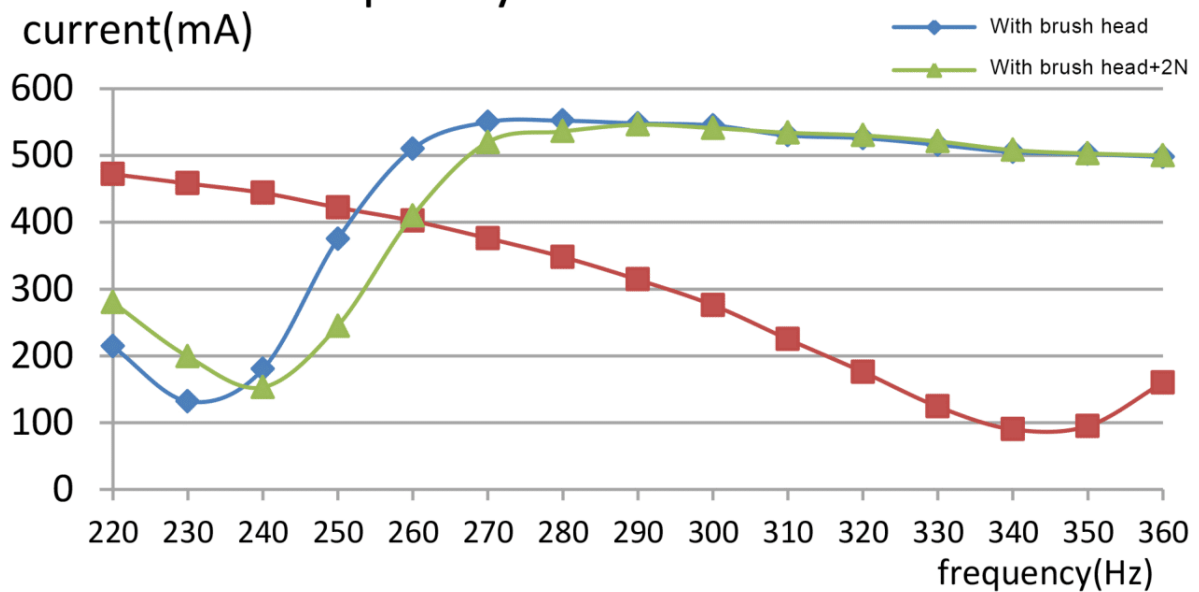
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frequency-angel curve



frequency-current curve



1640ZDF-1-L2-3.7

16mm sonic electric toothbrush motor



<https://www.kocomotion.de/produkt/1640zdf-1-l2-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.7 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	40800 Times / minute
No-load current	90 mA
Starting torque	15 mNm
Starting current	1.0 A
Rated load (Brush head)	3.6 g
Load vibration frequency	36000 Times / minute
Load current	350 mA
Rotor inertia	1.2 g·cm ²
Weight	25 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1640ZDF-T-1A-L36-3.7

16mm sonic electric toothbrush motor



<https://www.kocomotion.de/produkt/1640zdf-t-1a-l36-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.7 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	42000 Times / minute
No-load current	90 mA
Starting torque	15 mNm
Starting current	1.0 A
Rated load (Brush head)	3.9 g
Load vibration frequency	36000 Times / minute
Load current	370 mA
Rotor inertia	1.2 g·cm ²
Weight	25 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1640ZDF-ET-L4-3.7

16mm sonic electric toothbrush motor



<https://www.kocomotion.de/produkt/1640zdf-et-l4-3-7/>



Specification	
Voltage	3.7 V
Resistance	4 Ω
Operating frequency range	220~360 Hz
No-load vibration frequency	40800 Times / minute
No-load current	85 mA
Starting torque	14 mNm
Starting current	0.9 A
Rated load (Brush head)	3.9 g
Load vibration frequency	36000 Times / minute
Load current	330 mA
Rotor inertia	1.2 g·cm ²
Weight	25 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1839ZDF

18mm DC sonic vibration motor



<https://www.kocomotion.de/produkt/1839zdf/>

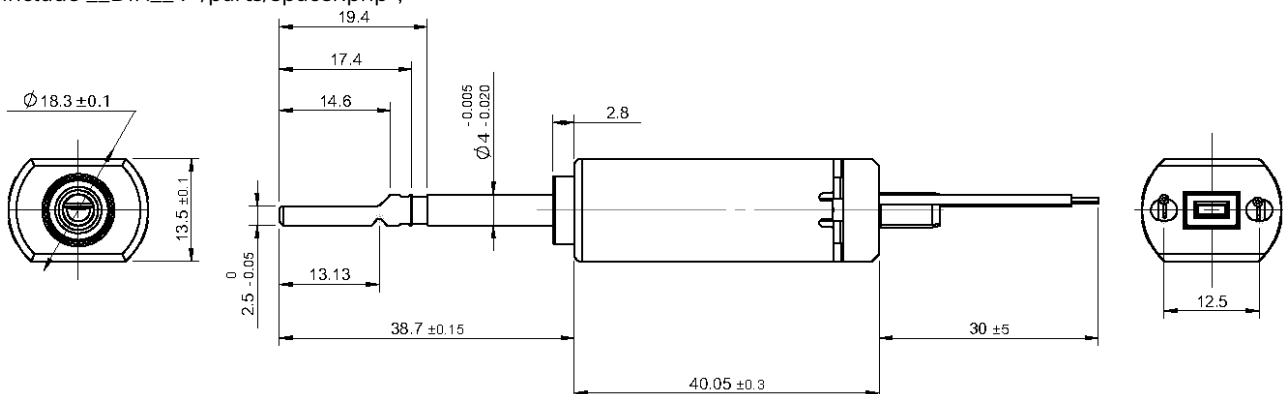


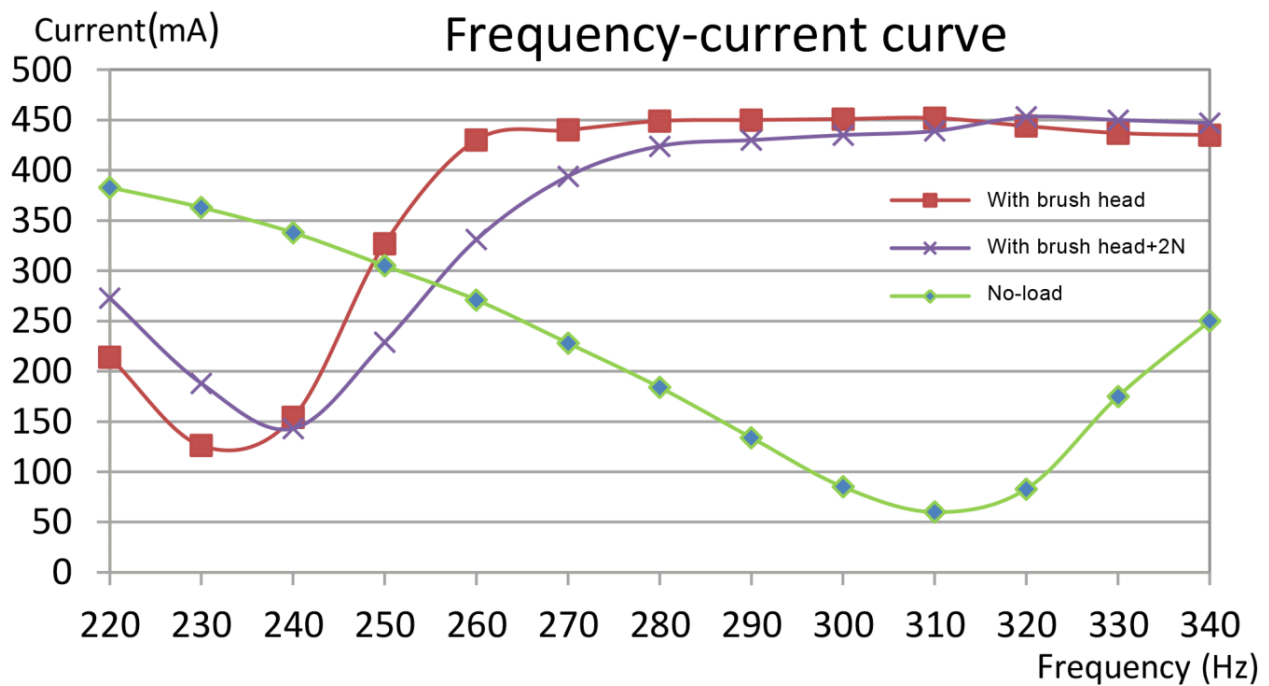
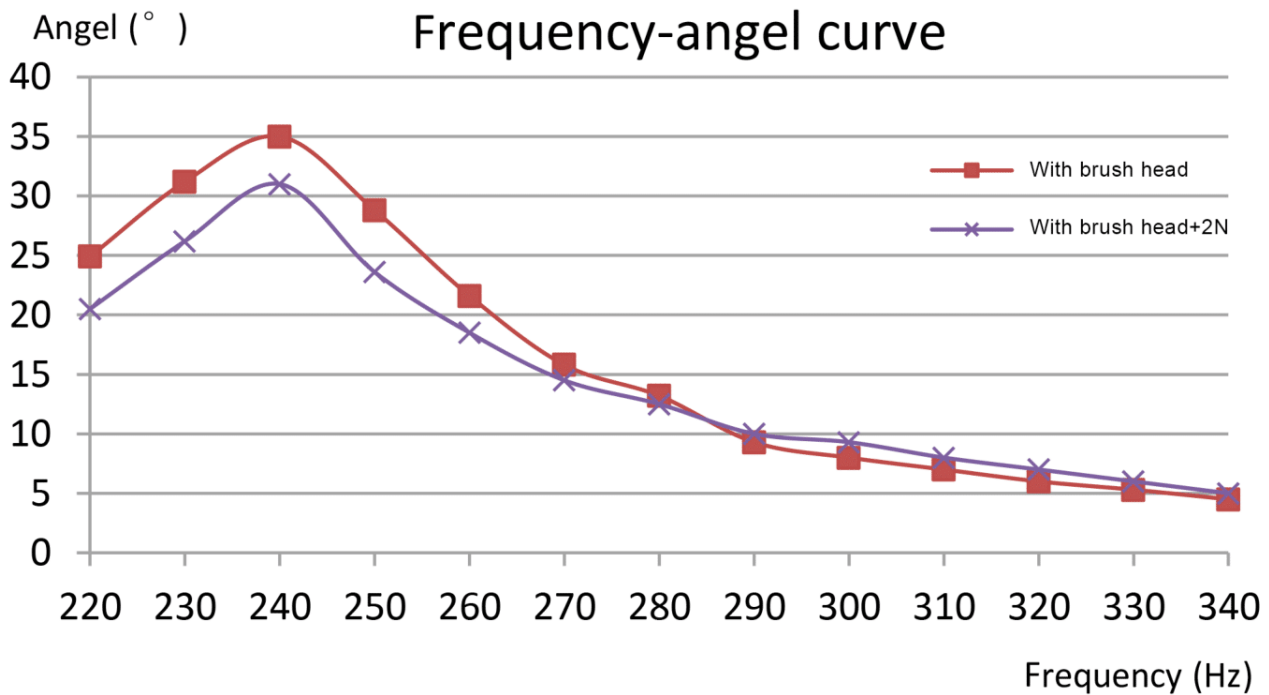
Produkte:

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1839ZDF-1-L5-3.7	25
1839ZDF-1AD-L23-40-3.7	26
1839ZDF-ET-L2-3.7	27

include __DIR__ . "/parts/spacer.php";





1839ZDF-1-L5-3.7

18mm DC sonic vibration motor



<https://www.kocomotion.de/produkt/1839zdf-1-l5-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.3 Ω
Operating frequency range	240~350 Hz
No-load vibration frequency	40000 Times / minute
No-load current	90 mA
Starting torque	18 mNm
Starting current	1.1 A
Rated load (Brush head)	3.8 g
Load vibration frequency	33600 Times / minute
Load current	400 mA
Rotor inertia	1.7 g·cm ²
Weight	29 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1839ZDF-1AD-L23-40-3.7

18mm DC sonic vibration motor



<https://www.kocomotion.de/produkt/1839zdf-1ad-l23-40-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.7 Ω
Operating frequency range	220~340 Hz
No-load vibration frequency	34800 Times / minute
No-load current	75 mA
Starting torque	22 mNm
Starting current	1.0 A
Rated load (Brush head)	3.9 g
Load vibration frequency	31200 Times / minute
Load current	460 mA
Rotor inertia	1.8 g·cm ²
Weight	30 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1839ZDF-ET-L2-3.7

18mm DC sonic vibration motor



<https://www.kocomotion.de/produkt/1839zdf-et-l2-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.7 Ω
Operating frequency range	240~350 Hz
No-load vibration frequency	40000 Times / minute
No-load current	80 mA
Starting torque	18 mNm
Starting current	1.0 A
Rated load (Brush head)	3.8 g
Load vibration frequency	33600 Times / minute
Load current	380 mA
Rotor inertia	1.6 g·cm ²
Weight	29 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1941ZDF

19mm DC sonic motor



<https://www.kocomotion.de/produkt/1941zdf/>

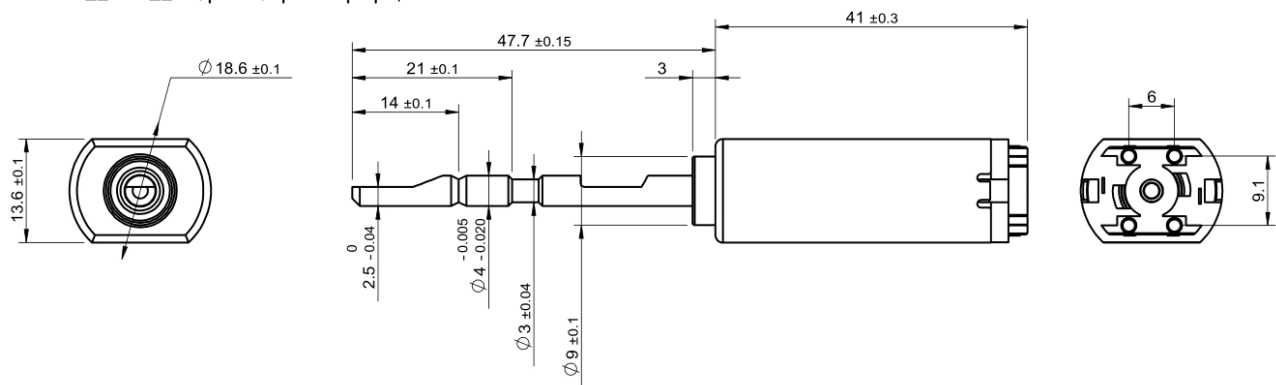


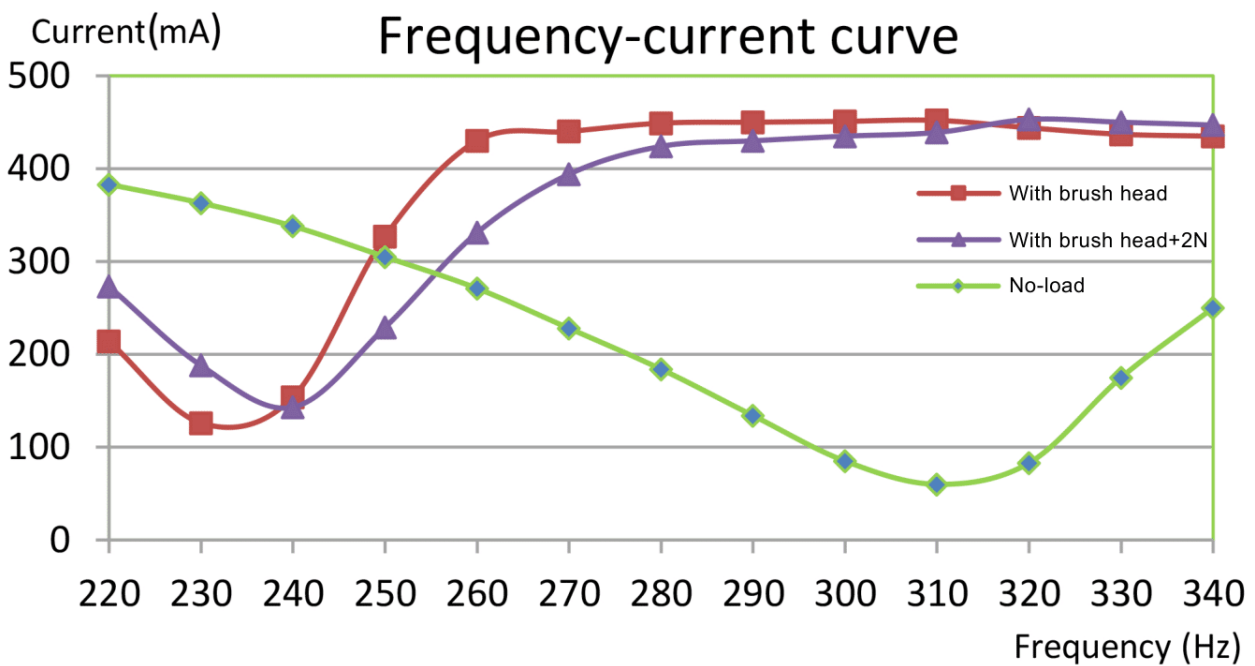
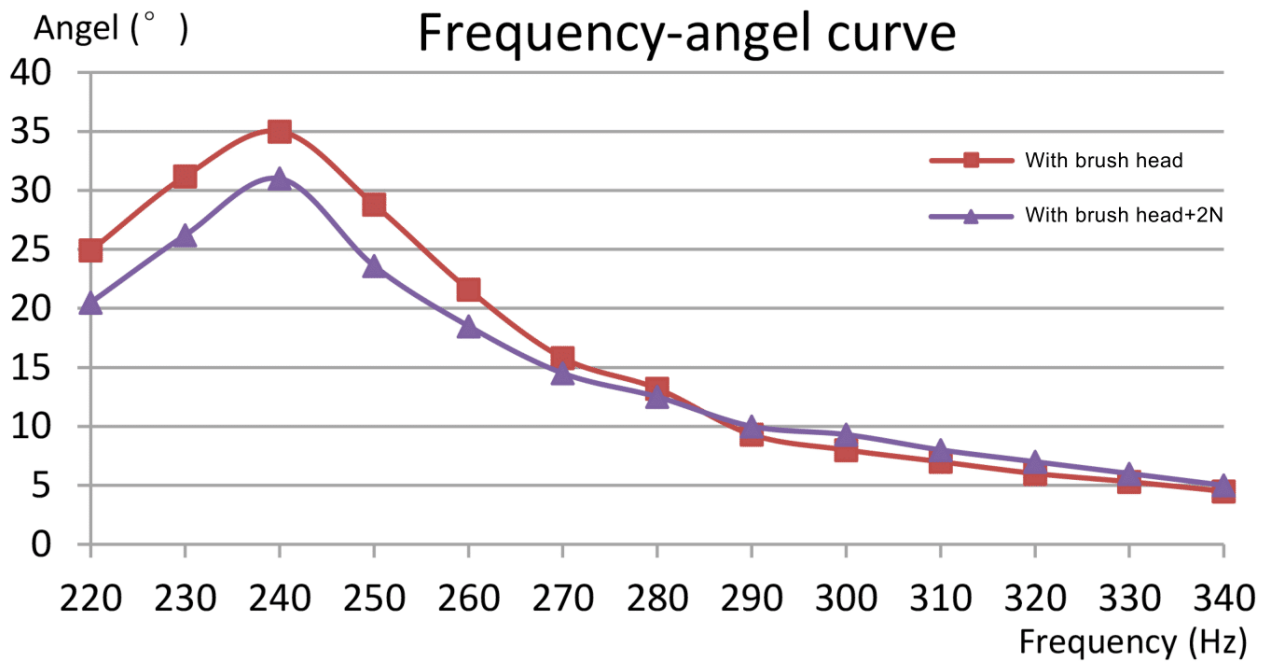
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1941ZDF-1-L3-2.5	30
1941ZDF-1-L2-30-3.7	31
1941ZDF-1K-L4-30-3.7	32

include __DIR__ . "/parts/spacer.php";





1941ZDF-1-L3-2.5

19mm DC sonic motor



<https://www.kocomotion.de/produkt/1941zdf-1-l3-2-5/>



Specification	
Voltage	3.7 V
Resistance	3.5 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	38400 Times / minute
No-load current	80 mA
Starting torque	22 mNm
Starting current	1.1 A
Rated load (Brush head)	3.8 g
Load vibration frequency	36000 Times / minute
Load current	360 mA
Rotor inertia	1.8 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1941ZDF-1-L2-30-3.7

19mm DC sonic motor



<https://www.kocomotion.de/produkt/1941zdf-1-l2-30-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.5 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	38400 Times / minute
No-load current	90 mA
Starting torque	22 mNm
Starting current	1.1 A
Rated load (Brush head)	3.8 g
Load vibration frequency	36000 Times / minute
Load current	400 mA
Rotor inertia	1.8 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

1941ZDF-1K-L4-30-3.7

19mm DC sonic motor



<https://www.kocomotion.de/produkt/1941zdf-1k-l4-30-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.7 Ω
Operating frequency range	200~360 Hz
No-load vibration frequency	38400 Times / minute
No-load current	95 mA
Starting torque	21 mNm
Starting current	1 A
Rated load (Brush head)	3.8 g
Load vibration frequency	36000 Times / minute
Load current	420 mA
Rotor inertia	1.8 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

2038ZDF

20mm DC electric toothbrush motor



<https://www.kocomotion.de/produkt/2038zdf/>



Produkte:

Seite

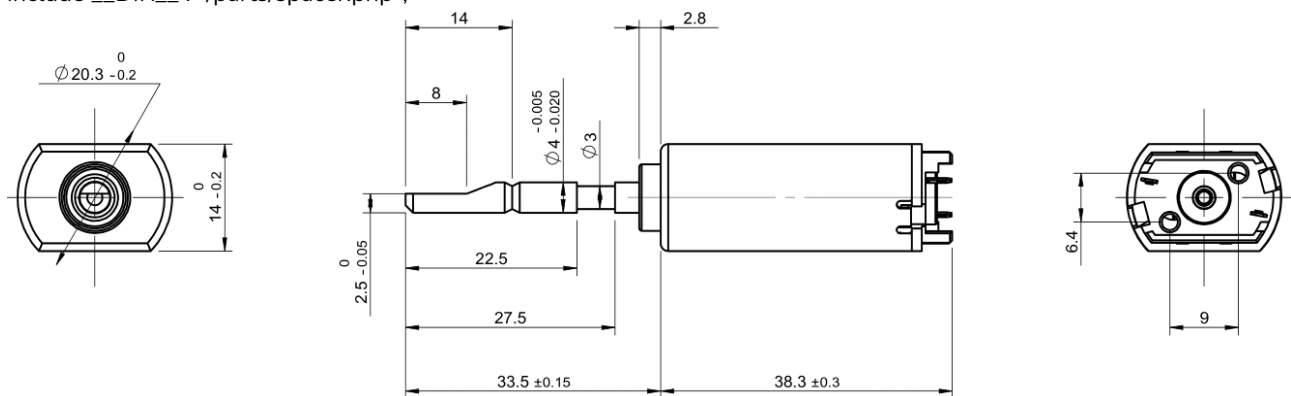
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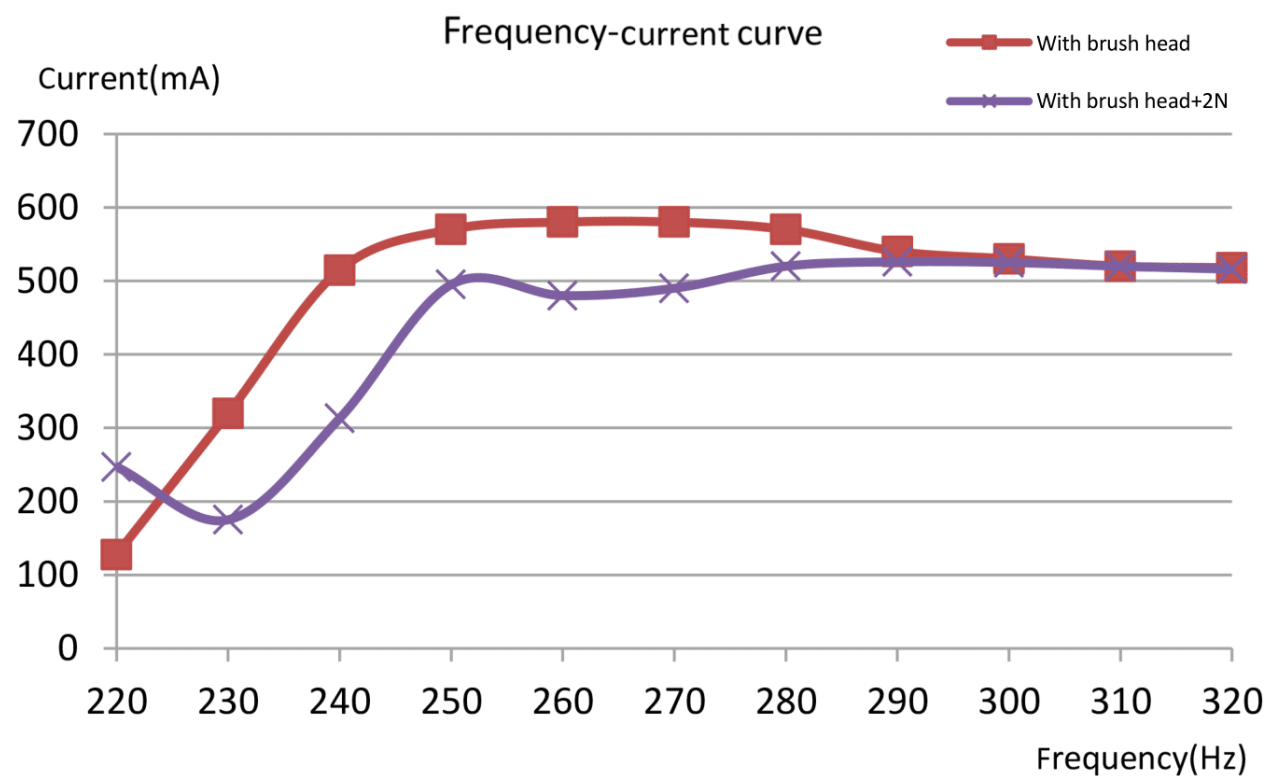
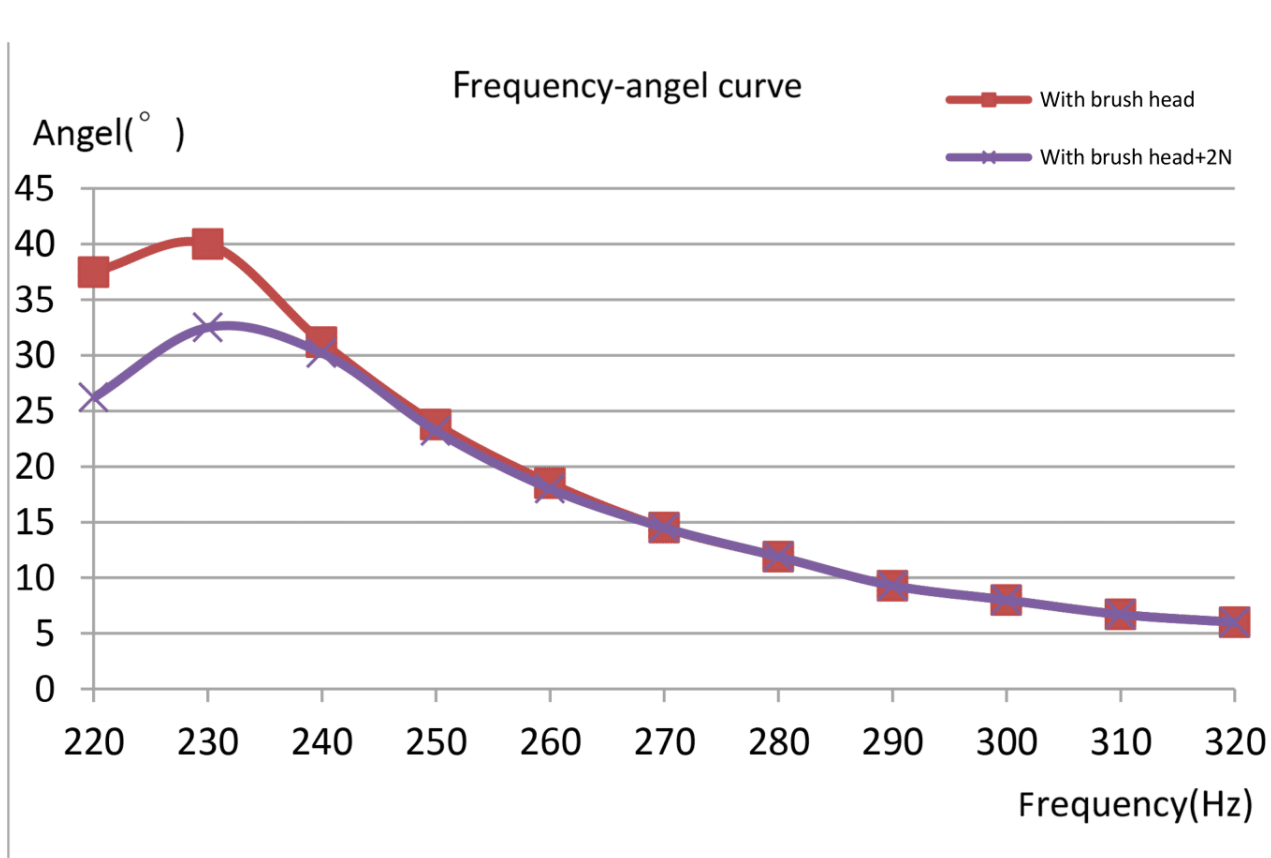
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2038ZDF-ET-L4-3.7

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include __DIR__ . "/parts/spacer.php";





2038ZDF-BW-3-L4-3.7

20mm DC electric toothbrush motor



<https://www.kocomotion.de/produkt/2038zdf-bw-3-l4-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.2 Ω
Operating frequency range	220~320 Hz
No-load vibration frequency	34800 Times / minute
No-load current	90 mA
Starting torque	22 mNm
Starting current	1.15 A
Rated load (Brush head)	4.4 g
Load vibration frequency	31000 Times / minute
Load current	400 mA
Rotor inertia	2.4 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

2038ZDF-ET-L4-3.7

20mm DC electric toothbrush motor



<https://www.kocomotion.de/produkt/2038zdf-et-l4-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.2 Ω
Operating frequency range	220~320 Hz
No-load vibration frequency	34800 Times / minute
No-load current	95 mA
Starting torque	22 mNm
Starting current	1.15 A
Rated load (Brush head)	4.4 g
Load vibration frequency	31000 Times / minute
Load current	450 mA
Rotor inertia	2.4 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

2040ZDF

20mm DC electric toothbrush motor



<https://www.kocomotion.de/produkt/2040zdf/>



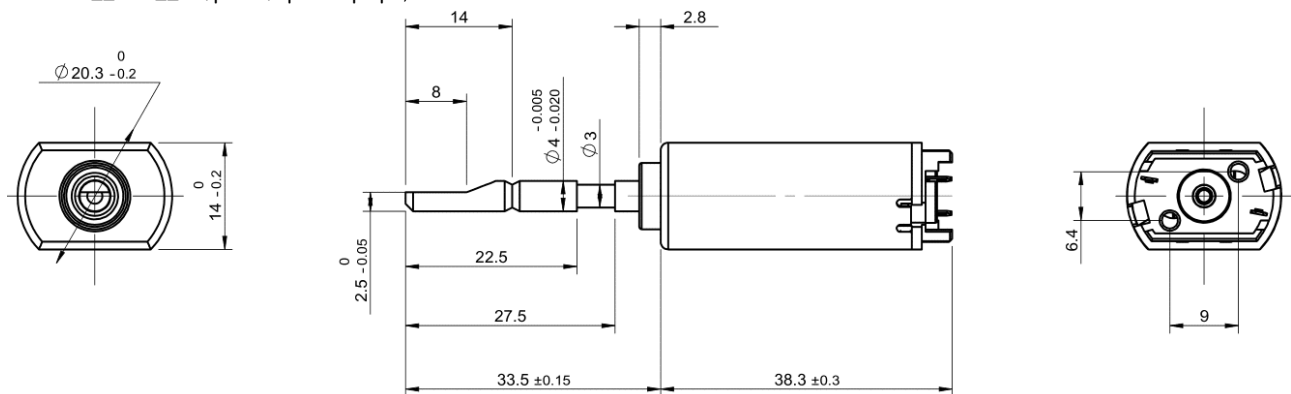
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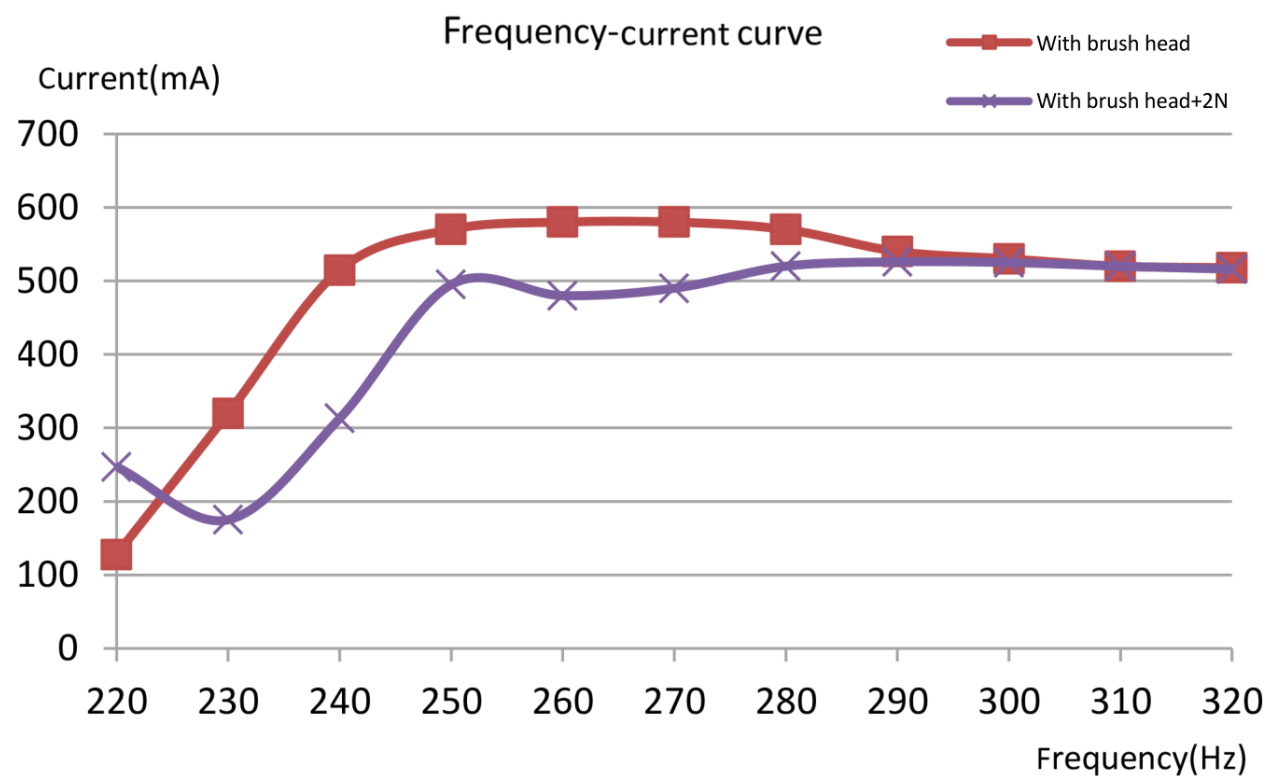
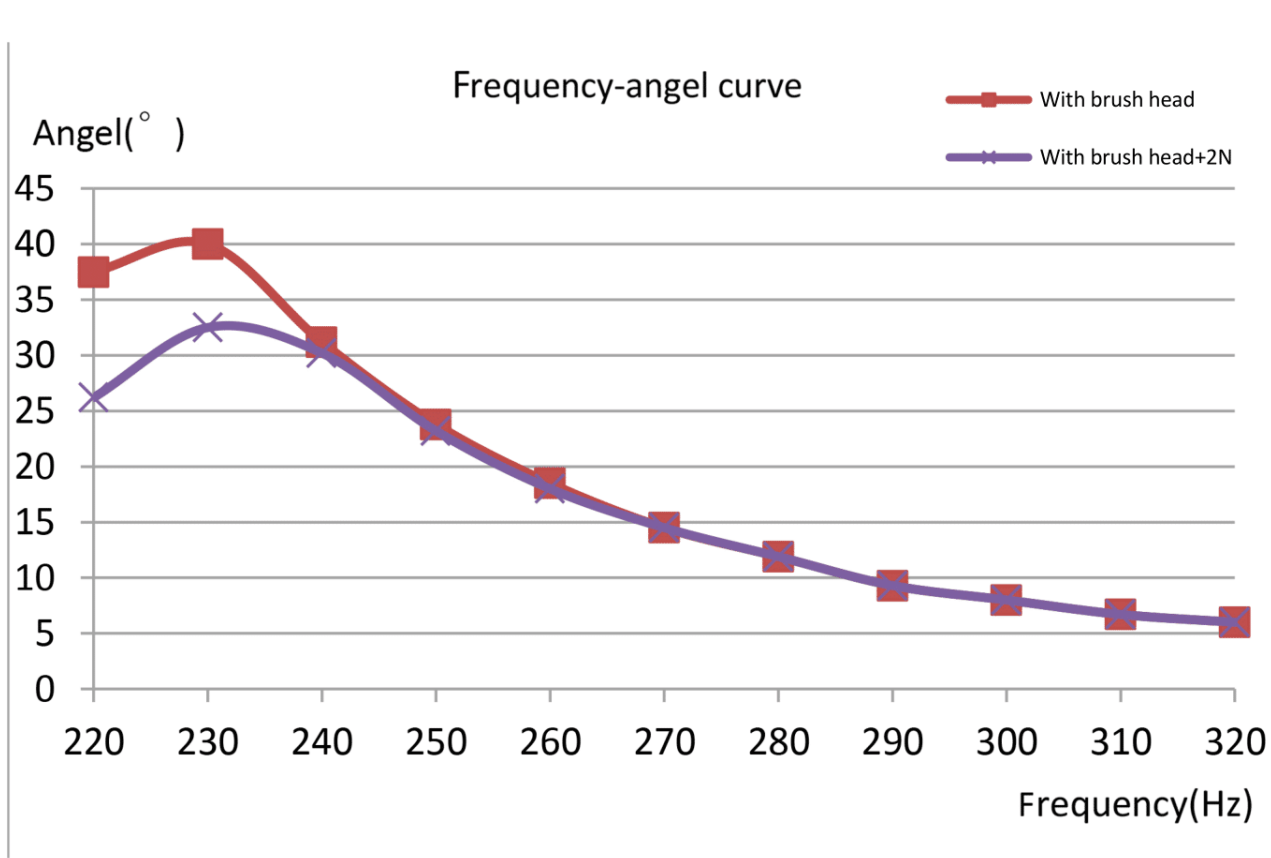
Seite

2040ZDF-3-L1-3.7

39

include __DIR__ . "/parts/spacer.php";





2040ZDF-3-L1-3.7

20mm DC electric toothbrush motor



<https://www.kocomotion.de/produkt/2040zdf-3-l1-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.2 Ω
Operating frequency range	220~320 Hz
No-load vibration frequency	34800 Times / minute
No-load current	90 mA
Starting torque	23 mNm
Starting current	1.15 A
Rated load (Brush head)	4.4 g
Load vibration frequency	31000 Times / minute
Load current	500 mA
Rotor inertia	2.4 g·cm ²
Weight	31 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- electric toothbrushes
- health care products
- cleaning equipment

2724ZDR

27mm brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2724zdr/>



Produkte:

Seite

2724ZDR-1-L7-30-3.7

42

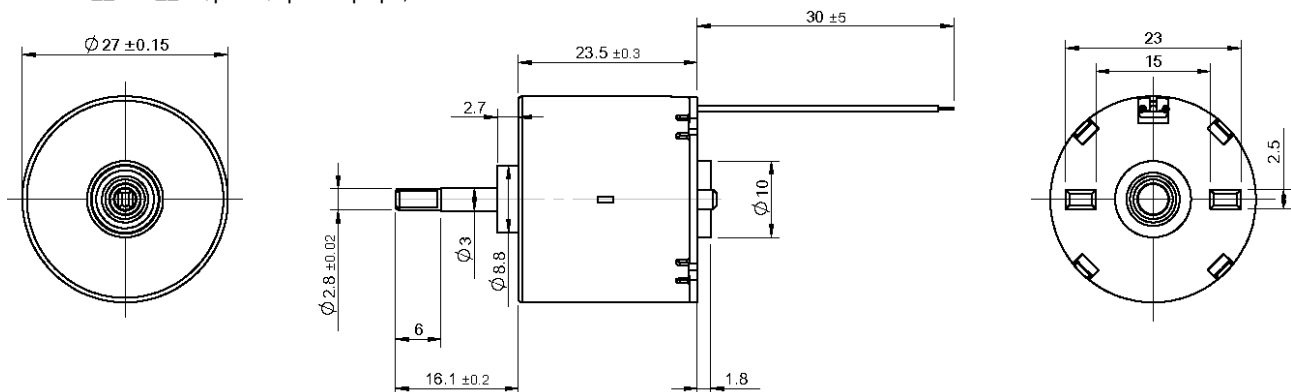
2724ZDR-1-L14-50-2.5

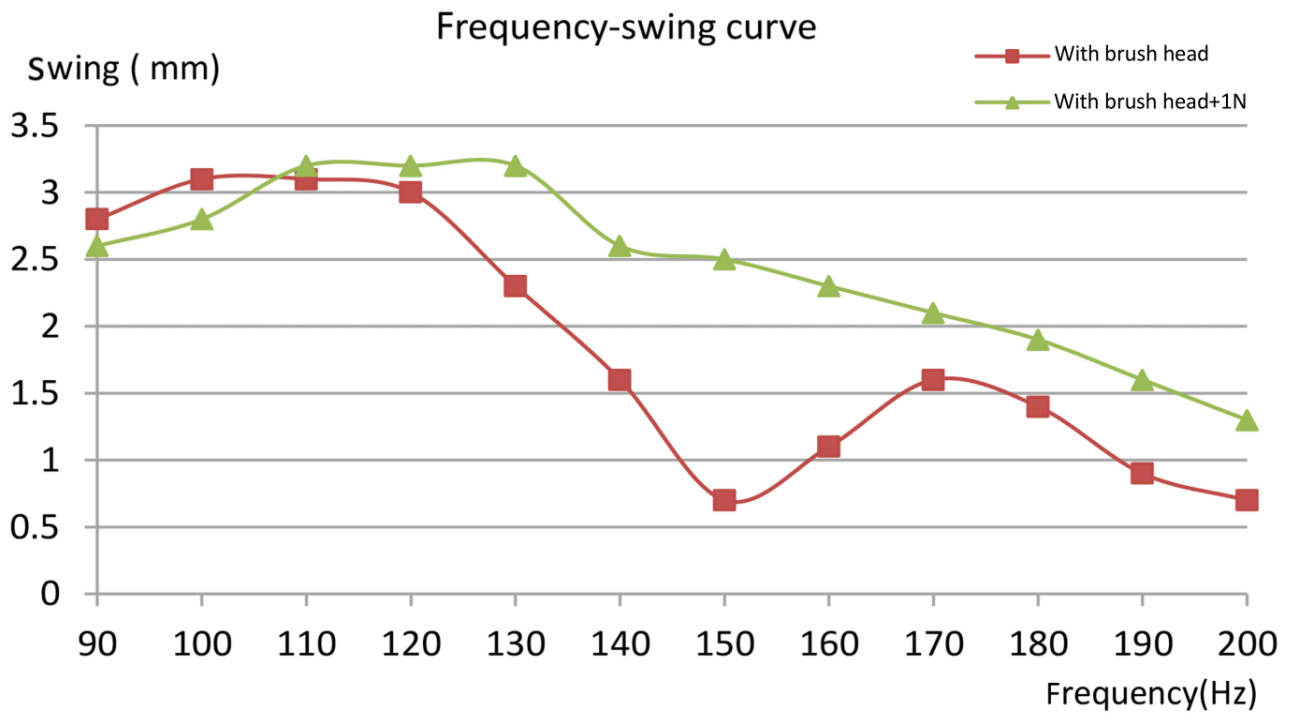
43

2724ZDR-1-L19-35-5.0

44

include __DIR__ . "/parts/spacer.php";





2724ZDR-1-L7-30-3.7

27mm brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2724zdr-1-l7-30-3-7/>



Specification	
Voltage	3.7 V
Resistance	2.2 Ω
Operating frequency range	100~220 Hz
No-load vibration frequency	26400 Times / minute
No-load current	150 mA
Starting torque	40 mNm
Starting current	1.7 A
Rated load (Brush head)	10 l 31 g l mm
Load vibration frequency	20400 Times / minute
Load current	450 mA
Rotor inertia	1.35 g·cm ²
Weight	49 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- facial brushes
- facial massagers
- health care products
- cleaning equipment

2724ZDR-1-L14-50-2.5

27mm brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2724zdr-1-l14-50-2-5/>



Specification	
Voltage	2.5 V
Resistance	2.2 Ω
Operating frequency range	100~220 Hz
No-load vibration frequency	26400 Times / minute
No-load current	135 mA
Starting torque	27 mNm
Starting current	1.15 A
Rated load (Brush head)	10 l 31 g l mm
Load vibration frequency	20400 Times / minute
Load current	410 mA
Rotor inertia	1.35 g·cm ²
Weight	49 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

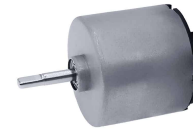
- facial brushes
- facial massagers
- health care products
- cleaning equipment

2724ZDR-1-L19-35-5.0

27mm brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2724zdr-1-l19-35-5-0/>



Specification	
Voltage	5.0 V
Resistance	2.2 Ω
Operating frequency range	100~220 Hz
No-load vibration frequency	26400 Times / minute
No-load current	180 mA
Starting torque	54 mNm
Starting current	2.3 A
Rated load (Brush head)	10 l 31 g l mm
Load vibration frequency	20400 Times / minute
Load current	500 mA
Rotor inertia	1.35 g·cm ²
Weight	49 g
Operating temperature range	-10~+60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- facial brushes
- facial massagers
- health care products
- cleaning equipment

2734ZDR

3.7V brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2734zdr/>



Produkte:

Seite

2734ZDR-1-L2-30-3.7

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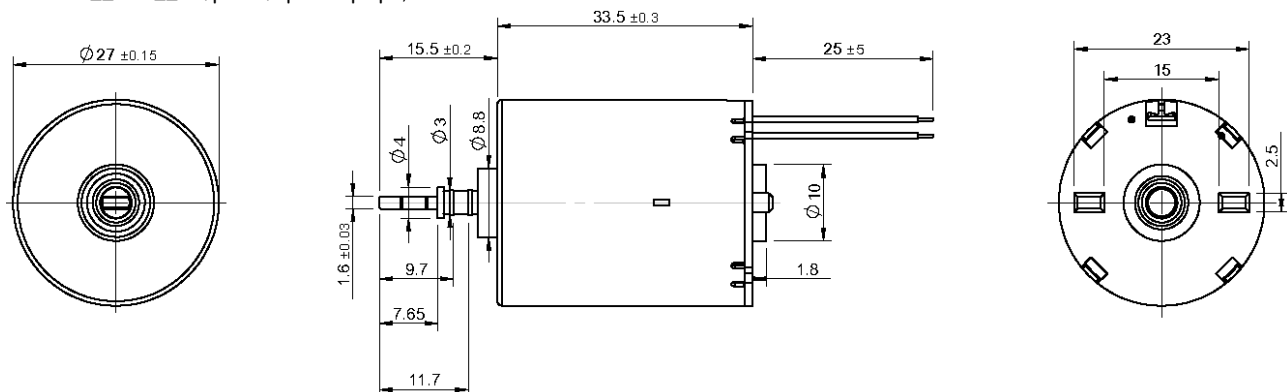
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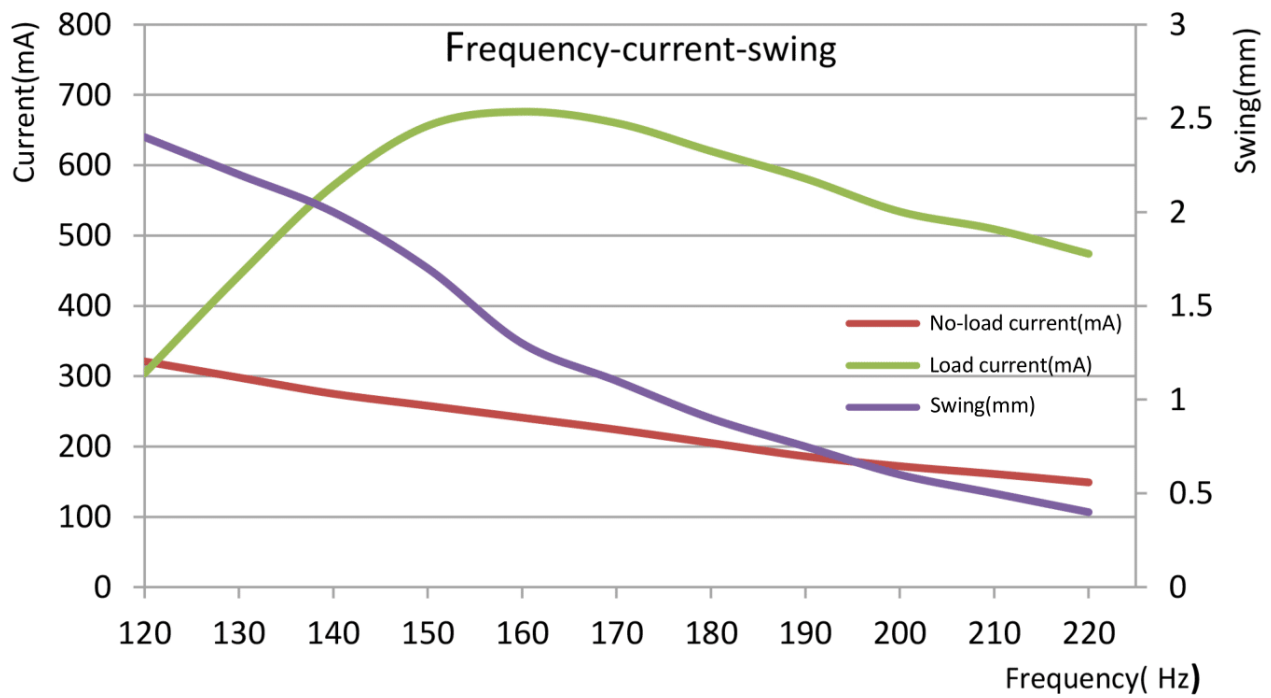
48

2734ZDR-1-L3-25-5.0

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include __DIR__ . "/parts/spacer.php";





2734ZDR-1-L2-30-3.7

3.7V brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2734zdr-1-l2-30-3-7/>



Specification	
Voltage	3.7 V
Resistance	3.0 Ω
Operating frequency range	100~240 Hz
No-load vibration frequency	30000 Times / minute
No-load current	150 mA
Starting torque	56 mNm
Starting current	1.23 A
Rated load (Brush head)	13.8 l 41 g l mm
Load vibration frequency	20400 Times / minute
Load current	580 mA
Rotor inertia	2.4 g·cm ²
Weight	76 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- facial brushes
- facial massagers
- health care products
- cleaning equipment

2734ZDR-2-L13-30-3.7

3.7V brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2734zdr-2-l13-30-3-7/>



Specification	
Voltage	3.7 V
Resistance	2.5 Ω
Operating frequency range	100~240 Hz
No-load vibration frequency	30000 Times / minute
No-load current	220 mA
Starting torque	56 mNm
Starting current	1.48 A
Rated load (Brush head)	13.8 l 41 g l mm
Load vibration frequency	20400 Times / minute
Load current	630 mA
Rotor inertia	2.4 g·cm ²
Weight	76 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- facial brushes
- facial massagers
- health care products
- cleaning equipment

2734ZDR-1-L3-25-5.0

3.7V brushless sonic vibration motor



<https://www.kocomotion.de/produkt/2734zdr-1-l3-25-5-0/>



Specification	
Voltage	5.0 V
Resistance	3.0 Ω
Operating frequency range	100~240 Hz
No-load vibration frequency	30000 Times / minute
No-load current	150 mA
Starting torque	75 mNm
Starting current	1.67 A
Rated load (Brush head)	13.8 l 41 g l mm
Load vibration frequency	20400 Times / minute
Load current	670 mA
Rotor inertia	2.4 g·cm ²
Weight	76 g
Operating temperature range	-10 +60 °C

Optionen

- lead wires length
- shaft length
- special coils

Anwendungen

- facial brushes
- facial massagers
- health care products
- cleaning equipment



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