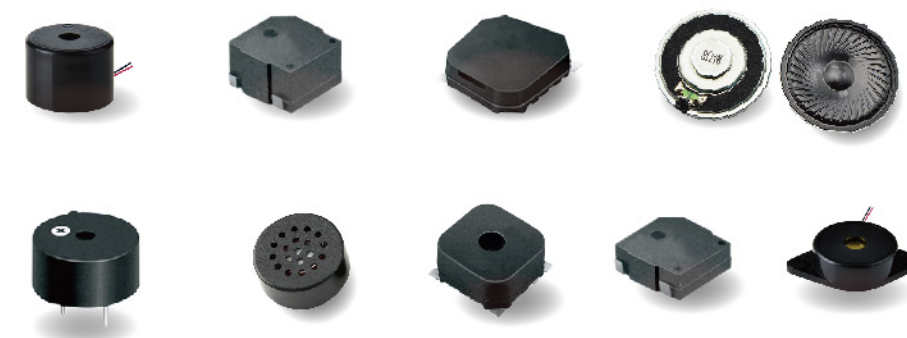




電聲產品專業製造商

Electro acoustic products

江蘇華能電子有限公司
JIANGSU HUAWHA ELECTRONICS CO.,LTD.

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Company Profile

江苏华能电子有限公司成立了蜂鸣器事业部，专门负责蜂鸣器系列产品的制造与研发，产品主要有贴片式蜂鸣器、电磁式蜂鸣器、压电式蜂鸣器。本公司研制生产的系列电子蜂鸣器产品广泛应用于：通讯、家用电器、汽车、电动自行车、UPS电源、报警报讯、仪器仪表、电子发音玩具及电子钟表等。公司自创办以来本着“团结、协作、创新、高效”的经营理念，全员参与，精益求精，为客户提供优质的电声系列产品。公司以品质第一、交期第一的服务理念为客户提供优质的产品。

Jiangsu HUAWHA Electronics Co.,Ltd. was established buzzer division, responsible for manufacturing and R & D buzzer series of products, products mainly SMD buzzer, electromagnetic buzzer, piezoelectric buzzer. The company developed the production of a series of electronic buzzer products are widely used in: telecommunications, home appliances, automobiles, electric bicycles, UPS, reported hearing the alarm, instrumentation, electronic toys and watches and other electronic pronunciation. Since its inception the spirit of "unity, cooperation, innovation, efficiency," business philosophy, full participation, excellence, to provide customers with high-quality electro-acoustic products. The company quality first, the first delivery of the service concept to provide customers with quality products.

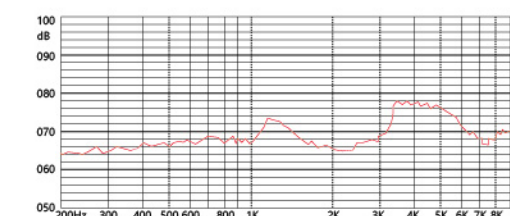
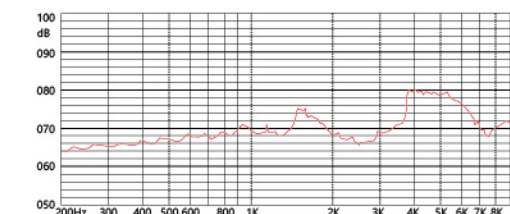
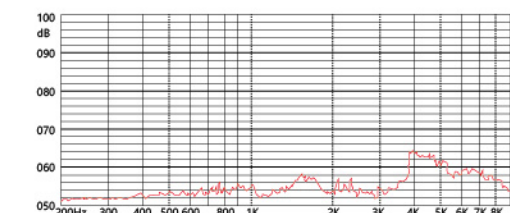


医疗设备 | 工业控制板 | 触摸开关 | 小家电类 | 报警器 | 玩具 | 防盗报警

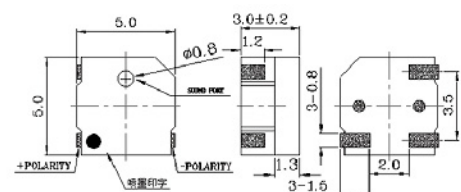
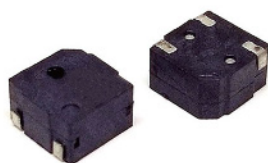
CONTENTS

SMD Magnetic Buzzer	04
SMD Piezo Buzzer	11
Electro-Magnetic Buzzer	16
Piezo Buzzer	21
Speaker	34
Production equipment	56

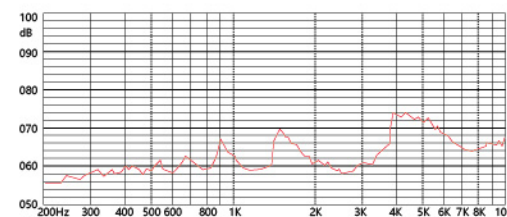
Technical drawing of a cast iron flange (铸件法兰尺寸) showing three views: front, top, and side. The front view shows a flange with a central hole of diameter 4.0 and a thickness of 1.1. The top view shows a square flange with side length 4.0 and a central hole of diameter 4.0. The side view shows a flange with a thickness of 1.7 and a central hole of diameter 4.0. The drawing also includes dimensions for a smaller component, likely a gasket or seal, with a diameter of 2.0 and a thickness of 1.4. The overall dimensions of the assembly are 4.4 by 1.8.



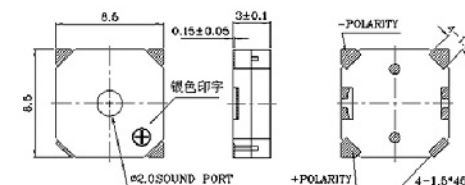
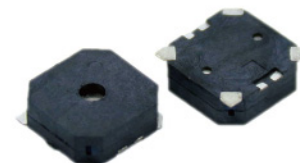
MLT-5030



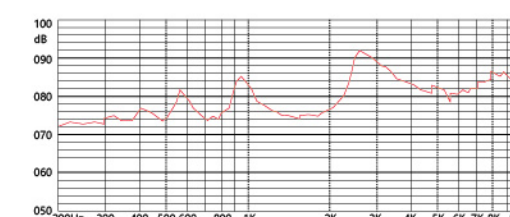
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Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	2 ~ 4
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 110
Sound Pressure Level	dB	MIN. 80
Coil Resistance	Ω	12 $\pm$ 2
Dimension	mm	5 x 5 x H3.0
Weight(MAX)	gram	0.15



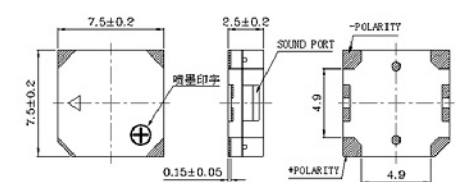
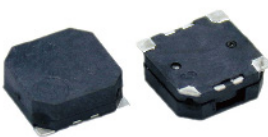
MLT-8530H



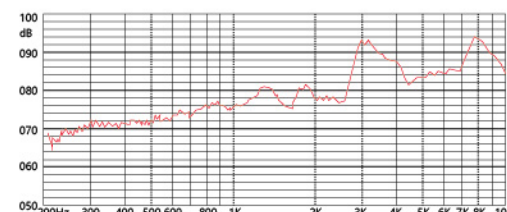
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Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	8.5 x 8.5 x H3
Weight(MAX)	gram	0.4



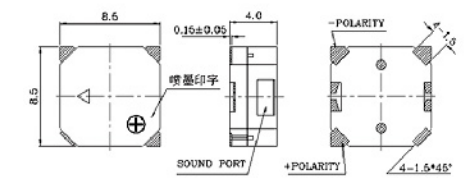
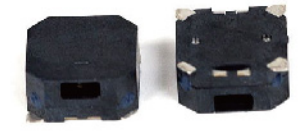
MLT-7525



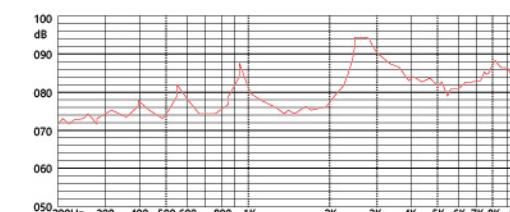
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Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 80
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	7.5 x 7.5 x H2.5
Weight(MAX)	gram	0.3



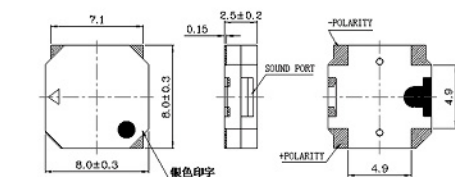
MLT-8540



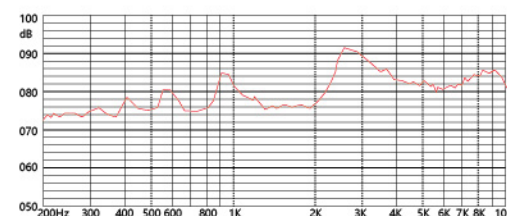
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Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 90
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	8.5 x 8.5 x H4
Weight(MAX)	gram	0.4



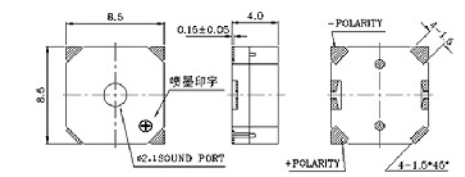
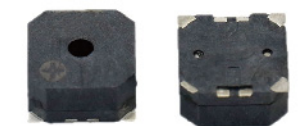
MLT-8025



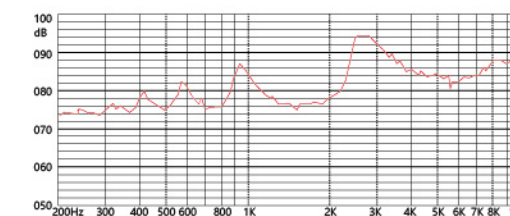
Item	Unit	MLT-8025
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 110
Sound Pressure Level	dB	MIN. 75
Coil Resistance	Ω	16 $\pm$ 2
Dimension	mm	8 x 8 x H2.5
Weight(MAX)	gram	0.4



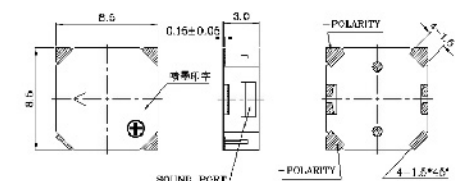
MLT-8540H



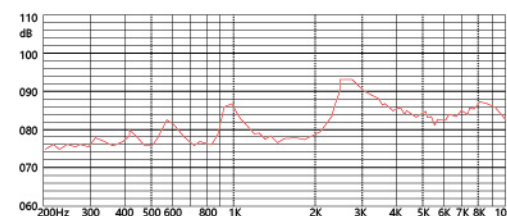
Item	Unit	MLT-8540H
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	8.5 x 8.5 x H4
Weight(MAX)	gram	0.4



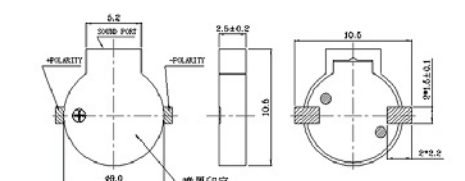
MLT-8530



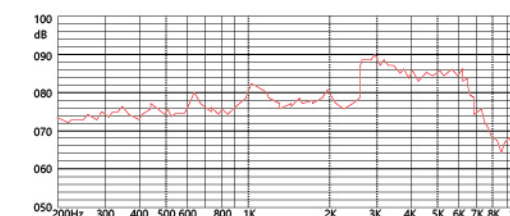
Item	Unit	MLT-8530
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	8.5 x 8.5 x H3
Weight(MAX)	gram	0.4

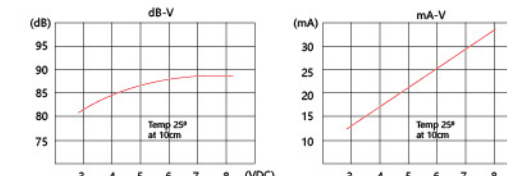
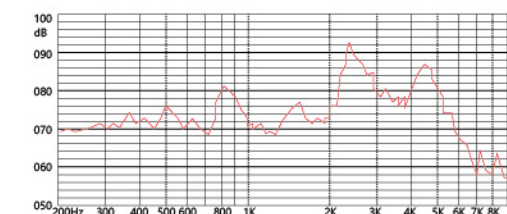
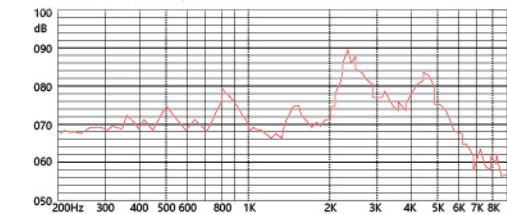
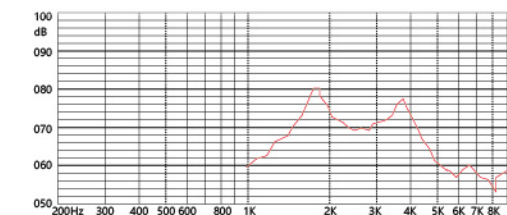
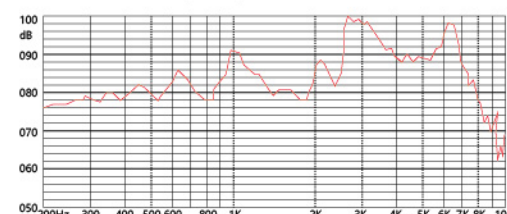
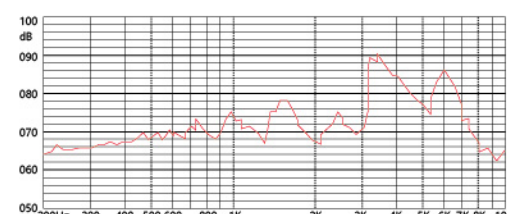
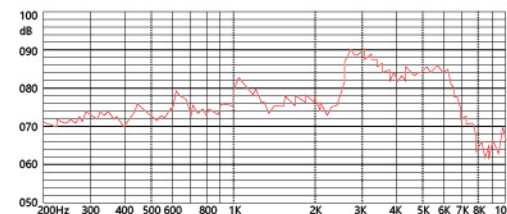
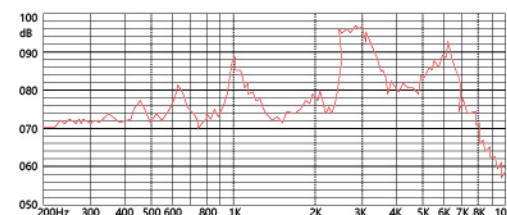


MLT-9025

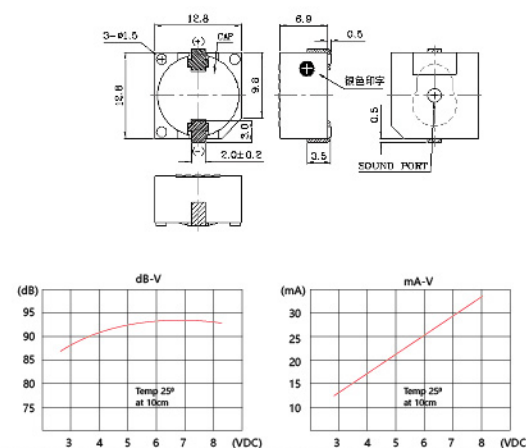


Item	Unit	MLT-9025
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2.5 ~ 4.5
Rated Voltage	Vo-p	3.6
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	9.0 x H2.5
Weight(MAX)	gram	0.4

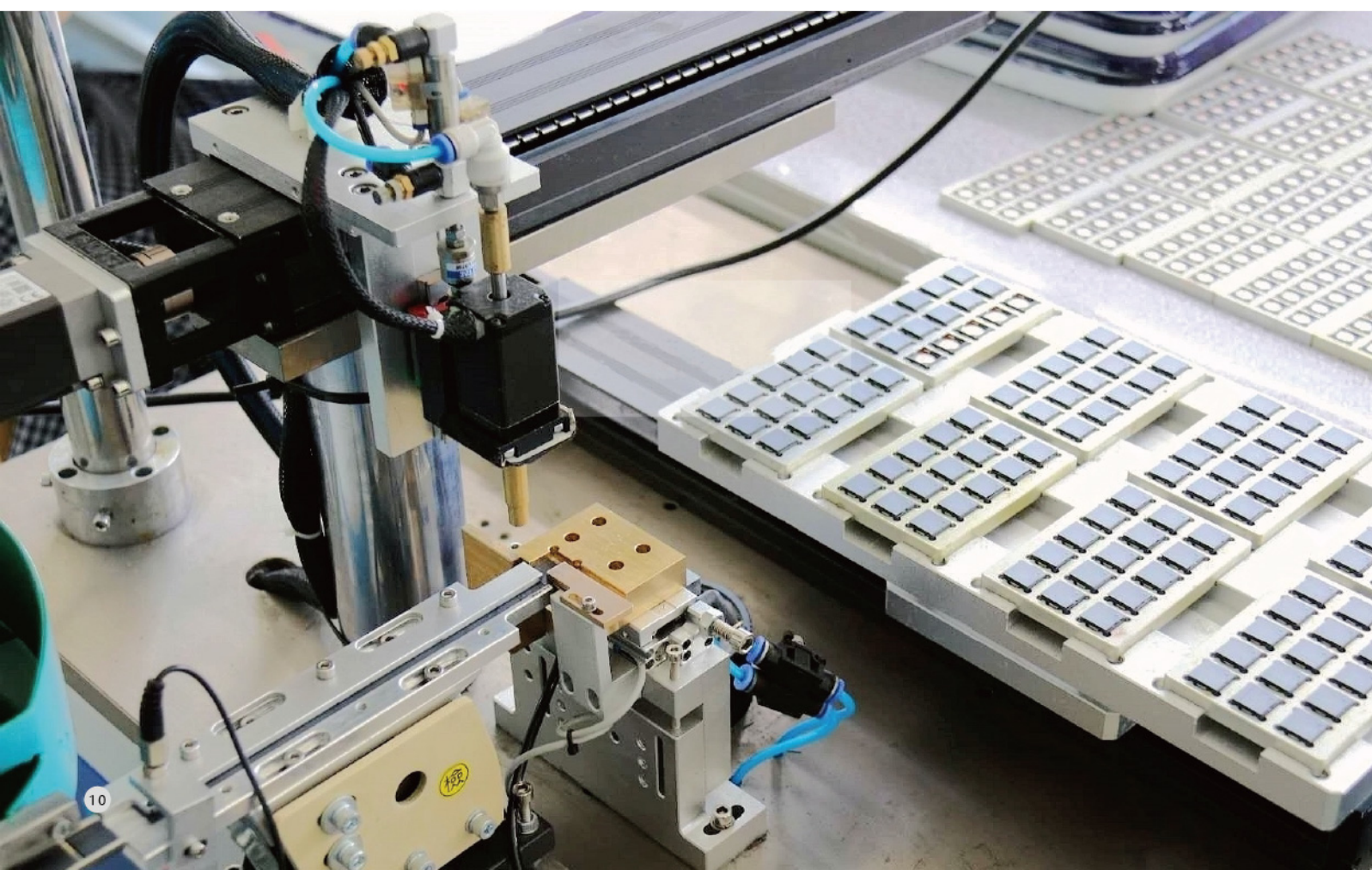
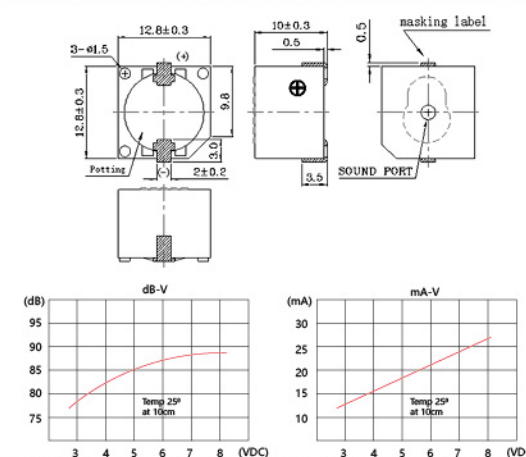




Item	Unit	MLT-1365
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	4 ~ 7
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	12.8 x 12.8 x H6.5
Weight(MAX)	gram	2.5



Item	Unit	MLT-1310
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	4 ~ 7
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	12.8 x 12.8 x H10
Weight(MAX)	gram	3.0



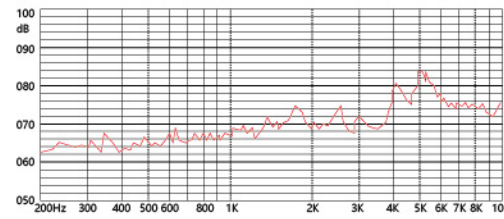
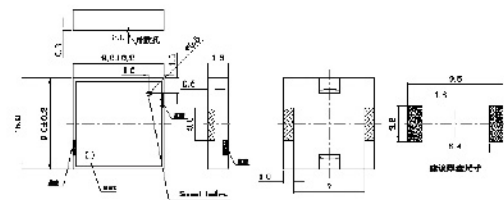
SMD Piezo Buzzer

贴片压电式蜂鸣器

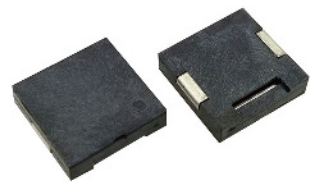
MLT-9018



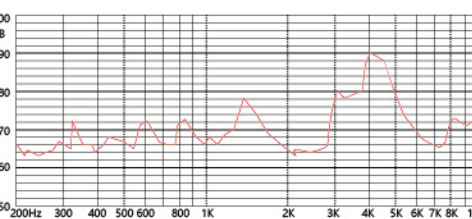
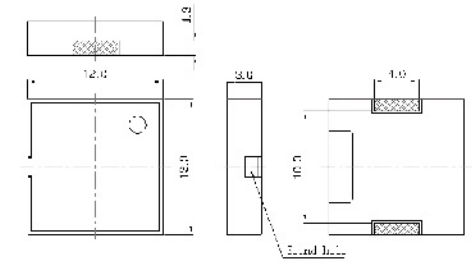
Item	Unit	MLT-9018
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 65
Capacitance at 100Hz 1v	pF	12000±30%
Dimension	mm	9 x 9 x H1.8
Weight(MAX)	gram	0.2



MLT-1230



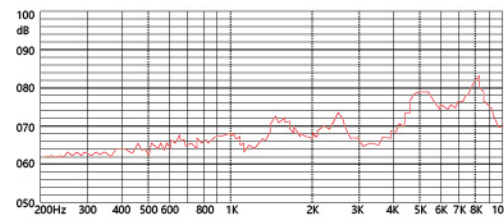
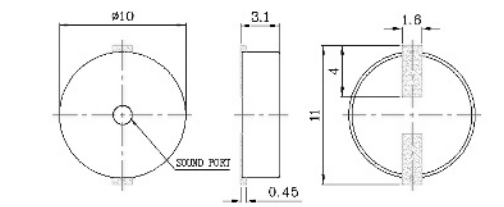
Item	Unit	MLT-1230
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 75
Capacitance at 100Hz 1v	pF	16000±30%
Dimension	mm	12 x 12 x H3.0
Weight(MAX)	gram	0.4



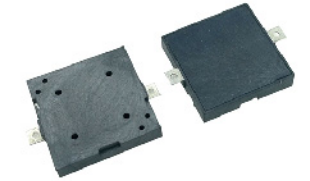
MLT-1030



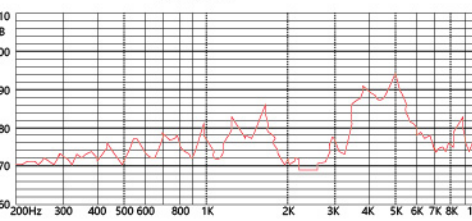
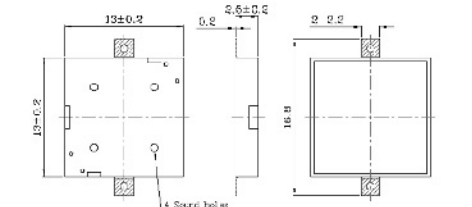
Item	Unit	MLT-1030
Oscillation Frequency	Hz	5200
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 75
Capacitance at 100Hz 1v	pF	11000±30%
Dimension	mm	10 x 10 x H3.1
Weight(MAX)	gram	0.3



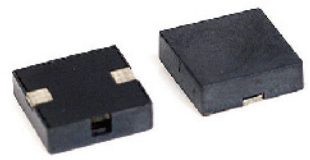
MLT-1325



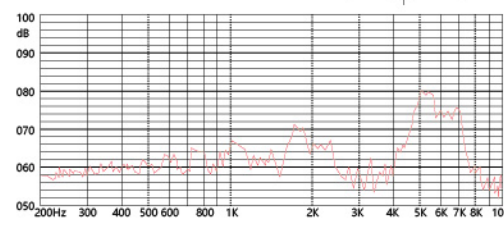
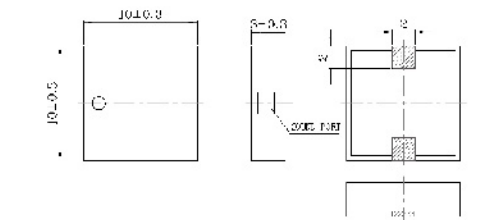
Item	Unit	MLT-1325
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 75
Capacitance at 100Hz 1v	pF	16000±30%
Dimension	mm	13 x 13 x H2.5
Weight(MAX)	gram	0.4



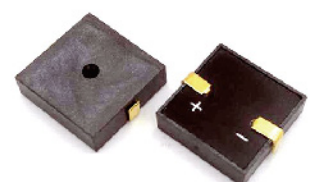
MLT-1030H



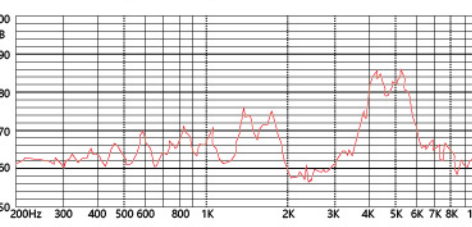
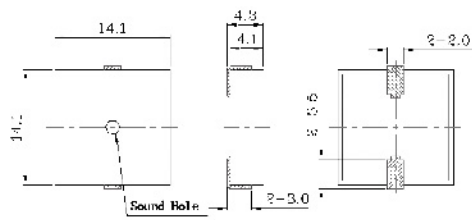
Item	Unit	MLT-1030H
Oscillation Frequency	Hz	5200
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 70
Capacitance at 100Hz 1v	pF	12000±30%
Dimension	mm	10 x 10 x H3.0
Weight(MAX)	gram	0.3



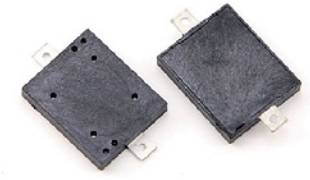
MLT-1440



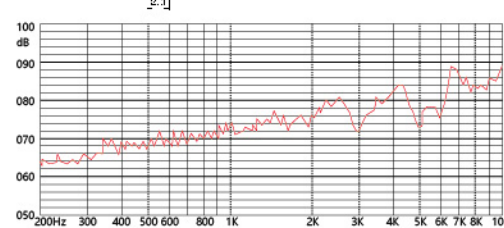
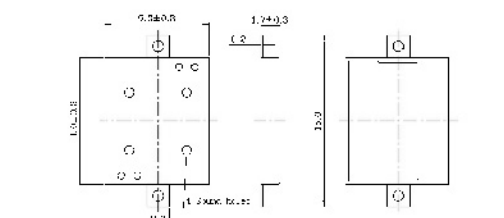
Item	Unit	MLT-1440
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 2
Sound Pressure Level	dB	MIN. 75
Capacitance at 100Hz 1v	pF	12000±30%
Dimension	mm	14 x 14 x H4.3
Weight(MAX)	gram	1.2



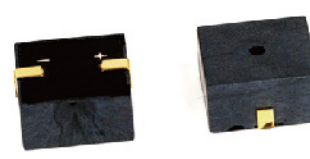
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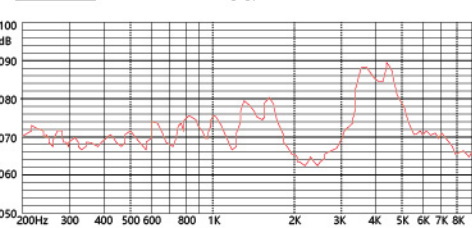
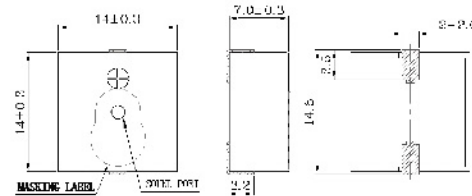
Item	Unit	MLT-1109
Oscillation Frequency	Hz	4100
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 70
Capacitance at 100Hz 1v	pF	12000±30%
Dimension	mm	11 x 9 x H1.7
Weight(MAX)	gram	0.3



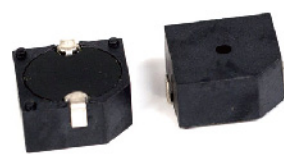
MLT-1470F



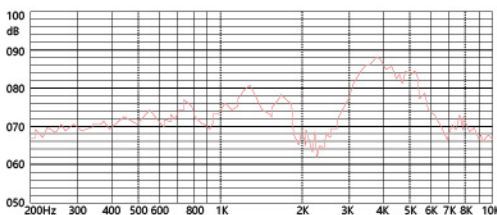
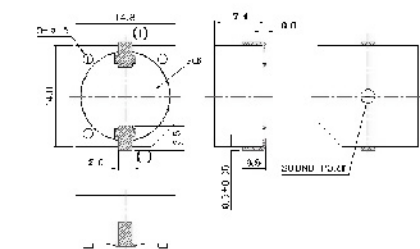
Item	Unit	MLT-1470F
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 30
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 85
Capacitance at 100Hz 1v	pF	16000±30%
Dimension	mm	14 x 14 x H7
Weight(MAX)	gram	2.0



MLT-1575



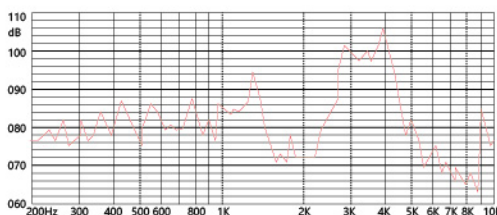
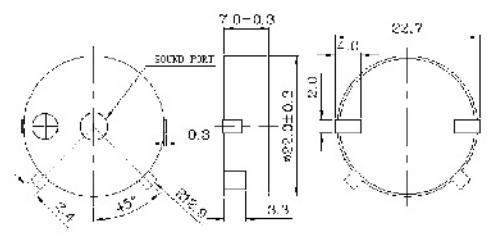
Item	Unit	MLT-1575
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	3~20
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Capacitance at 100Hz 1v	pF	15000±30%
Dimension	mm	14.8x14.8 x H7.5
Weight(MAX)	gram	2.0



MLT-2270



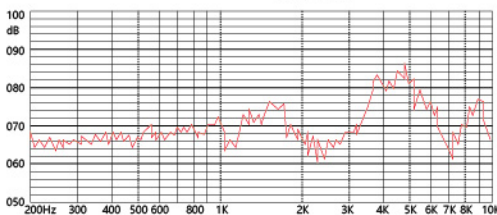
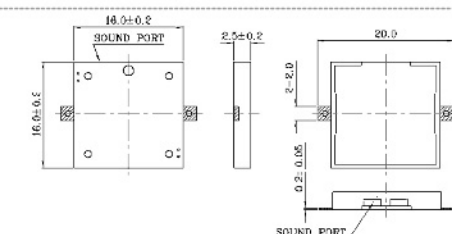
Item	Unit	MLT-2270
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 30
Rated Voltage	Vo-p	12
Current Consumption	mA	MAX. 12
Sound Pressure Level	dB	MIN. 90
Capacitance at 100Hz 1v	pF	19000±30%
Dimension	mm	22x H7
Weight(MAX)	gram	2.6



MLT-1625



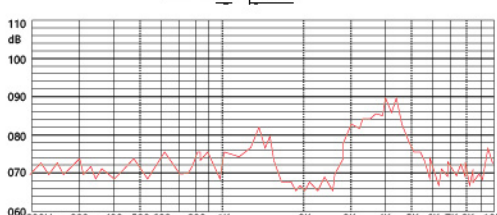
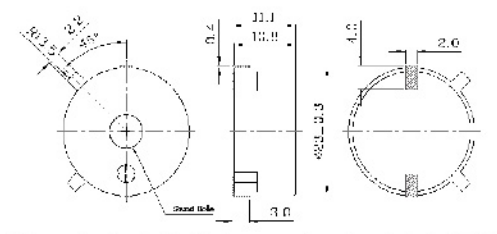
Item	Unit	MLT-1625
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 25
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 70
Capacitance at 100Hz 1v	pF	16000±30%
Dimension	mm	16x16 x H2.5
Weight(MAX)	gram	1.0



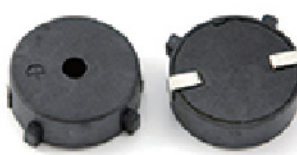
MLT-2311



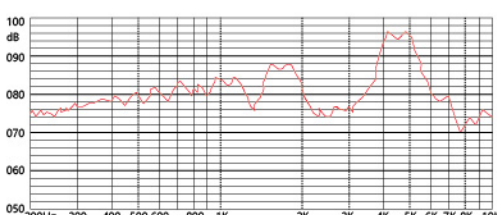
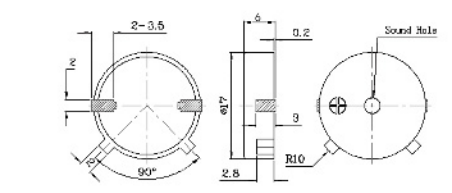
Item	Unit	MLT-2311
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 30
Rated Voltage	Vo-p	9
Current Consumption	mA	MAX. 9
Sound Pressure Level	dB	MIN. 100
Capacitance at 100Hz 1v	pF	19000±30%
Dimension	mm	23x H11
Weight(MAX)	gram	3.0



MLT-1760



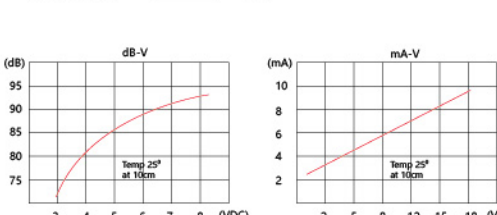
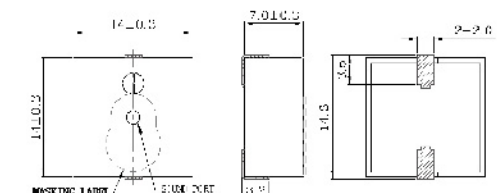
Item	Unit	MLT-1760
Oscillation Frequency	Hz	4000
Operating Voltage	Vo-p	1 ~ 30
Rated Voltage	Vo-p	12
Current Consumption	mA	MAX. 12
Sound Pressure Level	dB	MIN. 90
Capacitance at 100Hz 1v	pF	15000±30%
Dimension	mm	17 x H6
Weight(MAX)	gram	2.0



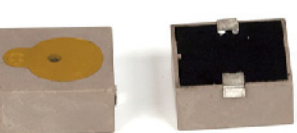
MLT-1470B



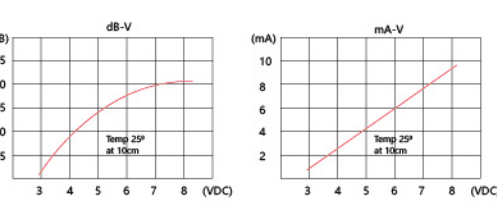
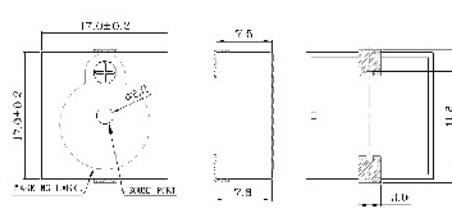
Item	Unit	MLT-1470B
Oscillation Frequency	Hz	4000
Operating Voltage	VDC	3 ~ 16
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 8
Sound Pressure Level	dB	MIN. 83
Tone/Pulse Rate		Constant
Dimension	mm	14 x 14 x H7
Weight(MAX)	gram	2.0



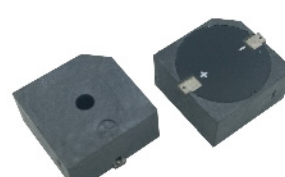
MLT-1780



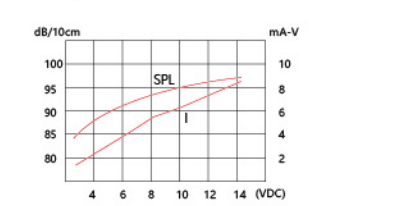
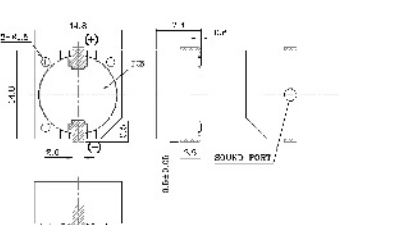
Item	Unit	MLT-1780
Oscillation Frequency	Hz	4000
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 8
Sound Pressure Level	dB	MIN. 80
Dimension	mm	17 x 17 x H7.5
Weight(MAX)	gram	2.6



MLT-1580B



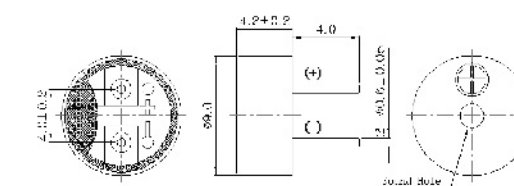
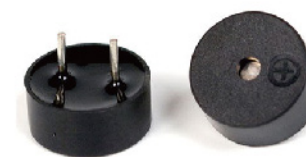
Item	Unit	MLT-1580B
Oscillation Frequency	Hz	4000
Operating Voltage	VDC	3 ~ 16
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 100
Sound Pressure Level	dB	MIN. 80
Tone/Pulse Rate		Constant
Dimension	mm	14.9 x 14.9 x H7.7
Weight(MAX)	gram	1.6



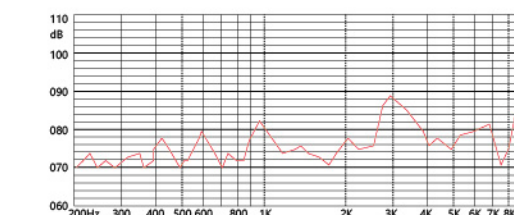
Electro-Magnetic Buzzer

电磁式蜂鸣器
Electro-Magnetic Buzzer

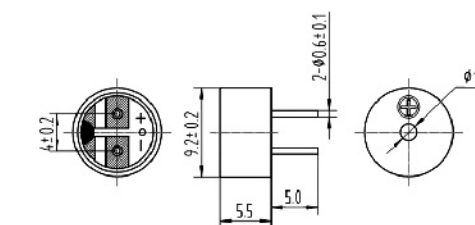
QMB-09A



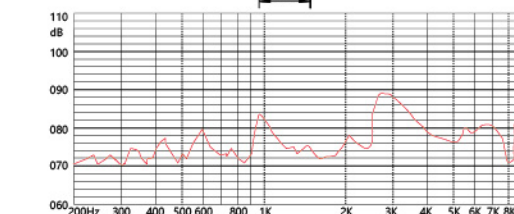
Item	Unit	QMB-09A
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	2 ~ 4
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 80
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	Φ 9 x H4.2
Weight(MAX)	gram	0.8



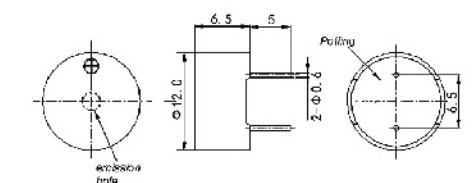
QMB-09B



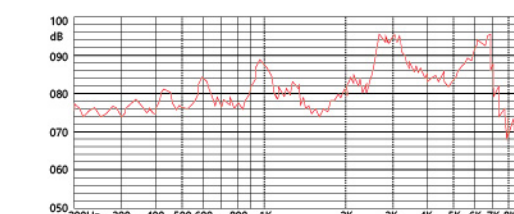
Item	Unit	QMB-09B
Oscillation Frequency	Hz	2700
Operating Voltage	Vo-p	4 ~ 7
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 80
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	42 $\pm$ 5
Dimension	mm	Φ 9 x H5.5
Weight(MAX)	gram	0.8



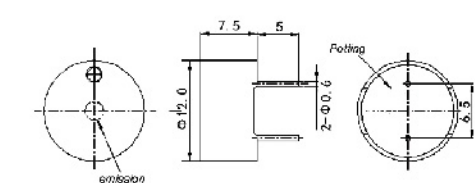
HN-1265



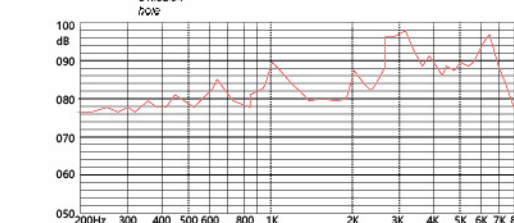
Item	Unit	HN-1265
Oscillation Frequency	Hz	2000
Operating Voltage	Vo-p	3 ~ 6
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 70
Sound Pressure Level	dB	MIN. 80
Tone/Pulse Rate	Ω	42
Dimension	mm	Φ 12 x H6.5
Weight(MAX)	gram	2.0



HN-1275



Item	Unit	HN-1275
Oscillation Frequency	Hz	2000
Operating Voltage	Vo-p	2 ~ 5
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 70
Sound Pressure Level	dB	MIN. 80
Tone/Pulse Rate	Ω	16 $\pm$ 3
Dimension	mm	Φ 12 x H7.5
Weight(MAX)	gram	2.0

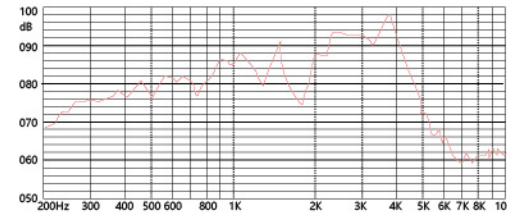
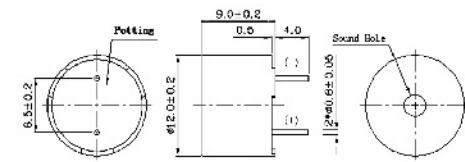


电磁式蜂鸣器
Electro-Magnetic Buzzer

HN-1201



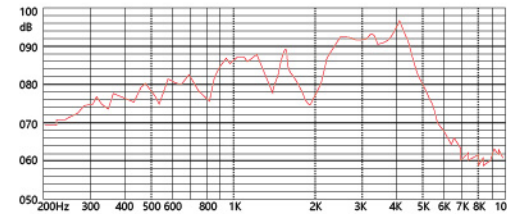
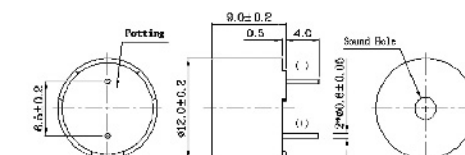
Item	Unit	HN-1201
Oscillation Frequency	KHz	2.0/2.4/4.0
Operating Voltage	Vo-p	2 ~ 5
Rated Voltage	Vo-p	3
Current Consumption	mA	MAX. 40
Sound Pressure Level	dB	MIN. 80
Coil Resistance	Ω	16 $\pm$ 3
Dimension	mm	Φ 12 x H9.0
Weight(MAX)	gram	2.0



HN-1206



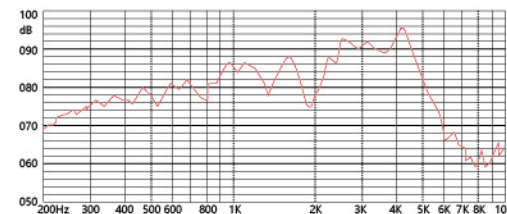
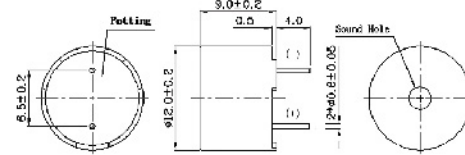
Item	Unit	HN-1206
Oscillation Frequency	KHz	2.0 / 2.4 / 4.0
Operating Voltage	Vo-p	4 ~ 7
Rated Voltage	Vo-p	5
Current Consumption	mA	MAX. 50
Sound Pressure Level	dB	MIN. 85
Coil Resistance	Ω	42 $\pm$ 5
Dimension	mm	Φ 12 x H9.0
Weight(MAX)	gram	2.0



HN-1212



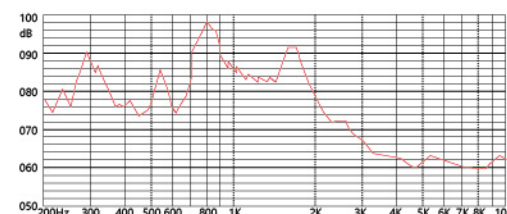
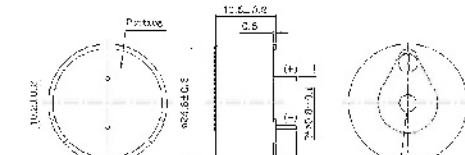
Item	Unit	HN-1212
Oscillation Frequency	KHz	2.0 / 2.4 / 4.0
Operating Voltage	Vo-p	8 ~ 15
Rated Voltage	Vo-p	12
Current Consumption	mA	MAX. 50
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate	Ω	140 $\pm$ 5
Dimension	mm	Φ 12 x H9.0
Weight(MAX)	gram	2.0



HNR-2512



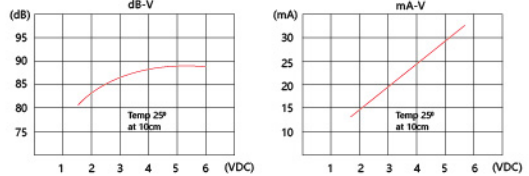
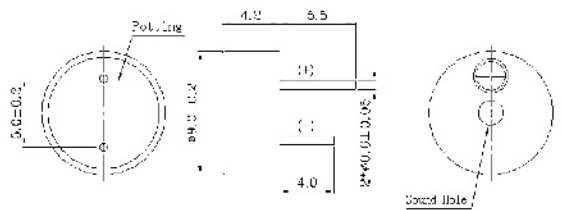
Item	Unit	HNR-2512
Oscillation Frequency	Hz	1000
Operating Voltage	Vo-p	6 ~ 16
Rated Voltage	Vo-p	12
Current Consumption	mA	MAX. 55
Sound Pressure Level	dB	MIN. 90
Coil Resistance	Ω	115 $\pm$ 15
Dimension	mm	Φ 25 x H12.5
Weight(MAX)	gram	9.0



HNT9042 3V/5V/12V



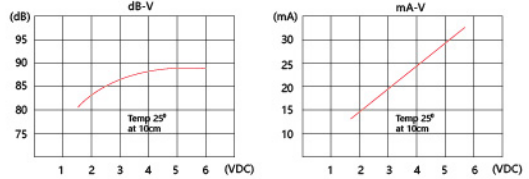
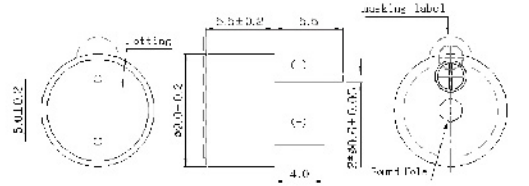
Item	Unit	HNT9042 3V/5V/12V
Oscillation Frequency	Hz	2700
Operating Voltage	VDC	4 ~ 7
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 82
Tone/Pulse Rate		Constant
Dimension	mm	Φ 9 x H4.2
Weight(MAX)	gram	1.0



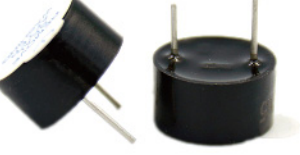
HNB09 A03/A05/A12



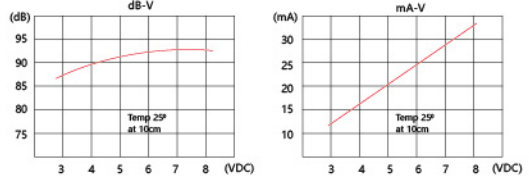
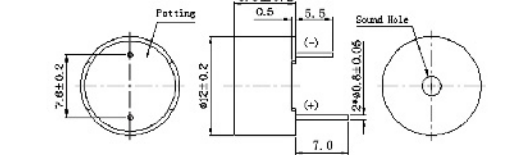
Item	Unit	HNB09 A03/A05/A12
Oscillation Frequency	Hz	2700
Operating Voltage	VDC	2 ~ 5
Rated Voltage	VDC	3
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 83
Tone/Pulse Rate		Constant
Dimension	mm	Φ 9 x H5.5
Weight(MAX)	gram	2.0



HMB1265 3V/5V/12V



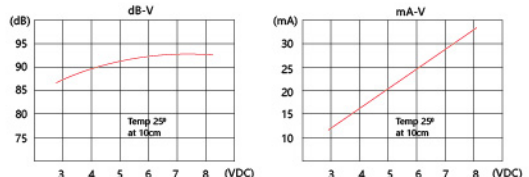
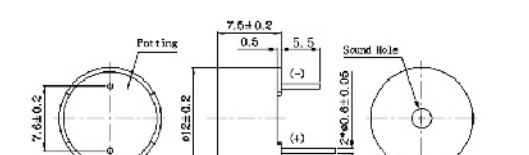
Item	Unit	HNB-1265 3V/5V/12V
Oscillation Frequency	Hz	2700
Operating Voltage	VDC	4 ~ 7
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ 12 x H6.5
Weight(MAX)	gram	2.0



HMB1275 3V/5V/12V



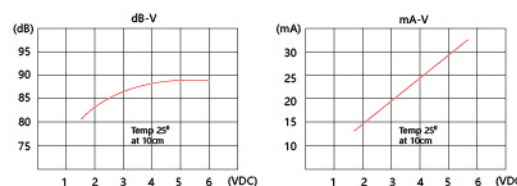
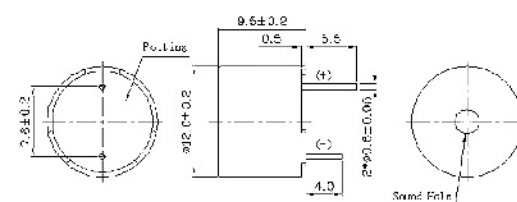
Item	Unit	HNB-1275 3V/5V/12V
Oscillation Frequency	Hz	2700
Operating Voltage	VDC	4 ~ 7
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ 12 x H7.5
Weight(MAX)	gram	2.0



TMB12A03



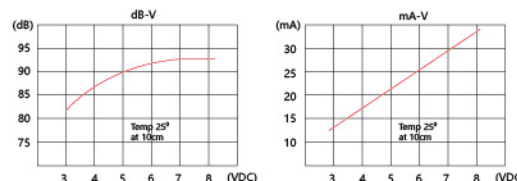
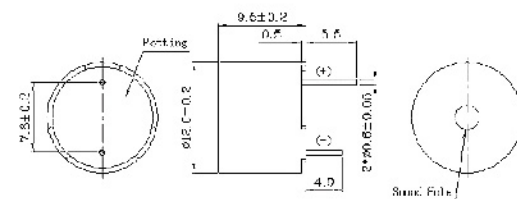
Item	Unit	TMB12A03
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	1.5 ~ 4
Rated Voltage	VDC	3
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ12 x H9.5
Weight(MAX)	gram	2.0



TMB12A05



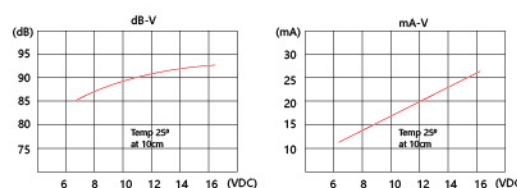
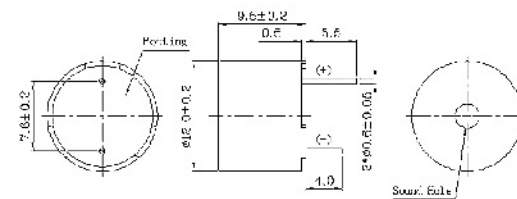
Item	Unit	TMB12A05
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	3 ~ 8
Rated Voltage	VDC	5
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ12 x H9.5
Weight(MAX)	gram	2.0



TMB12A12



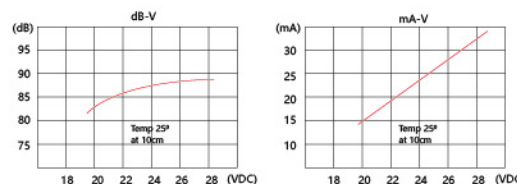
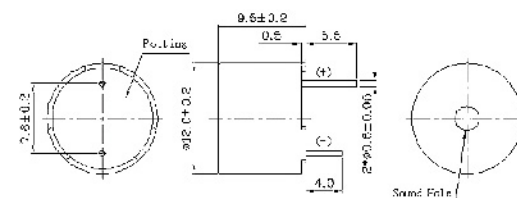
Item	Unit	TMB12A12
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	8 ~ 16
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 87
Tone/Pulse Rate		Constant
Dimension	mm	Φ12 x H9.5
Weight(MAX)	gram	2.0



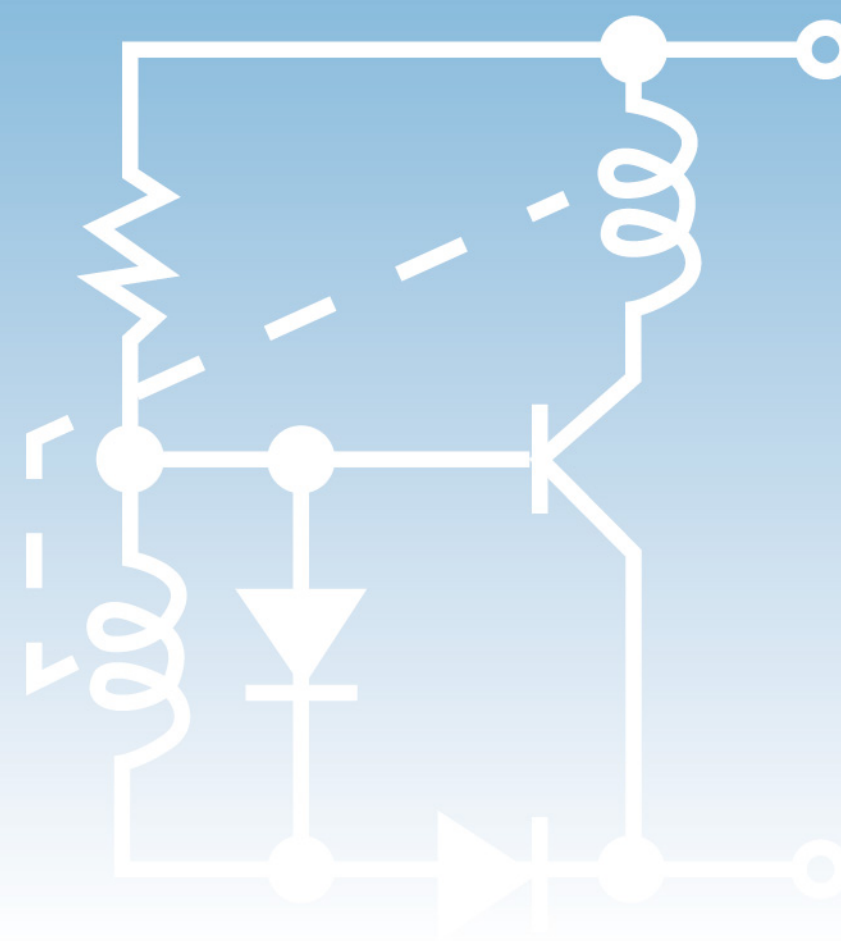
TMB12A24



Item	Unit	TMB12A24
Oscillation Frequency	Hz	2400
Operating Voltage	VDC	18 ~ 28
Rated Voltage	VDC	24
Current Consumption	mA	MAX. 30
Sound Pressure Level	dB	MIN. 90
Tone/Pulse Rate		Constant
Dimension	mm	Φ12 x H9.5
Weight(MAX)	gram	2.0



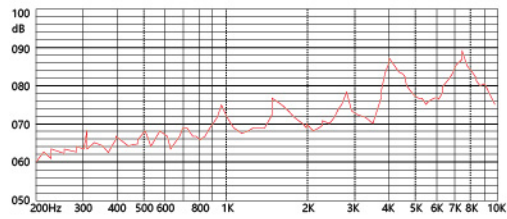
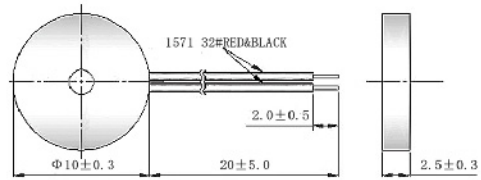
Piezo Buzzer



压电式蜂鸣器
Piezo Buzzer

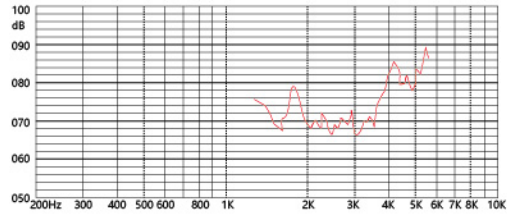
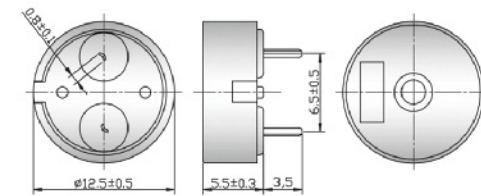
HNR-1026

Item	Unit	HNR-1026
Oscillation Frequency	Hz	4100
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 70
Electrostatic Capacity	nF	5.5±30%
Dimension	mm	10 x H2.5
Weight(MAX)	gram	0.3



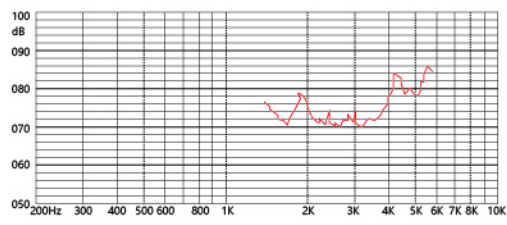
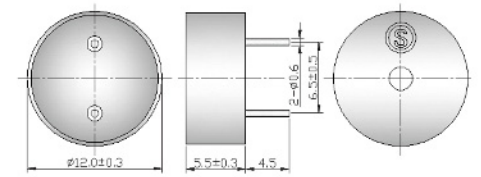
HNR-1255TP

Item	Unit	HNR-1255TP
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 85
Electrostatic Capacity	nF	12±30%
Dimension	mm	Φ12 x H5.5
Weight(MAX)	gram	0.7



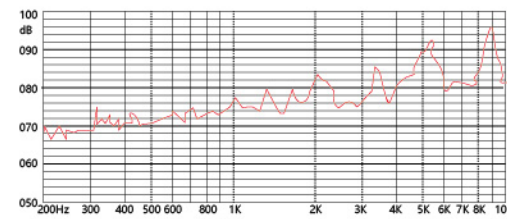
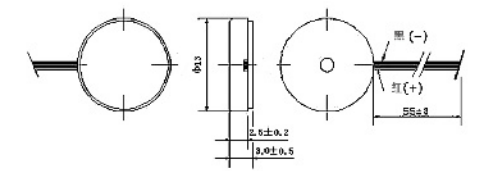
HNR-1255

Item	Unit	HNR-1255
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate	nF	12±30%
Dimension	mm	Φ12 x H5.5
Weight(MAX)	gram	0.6



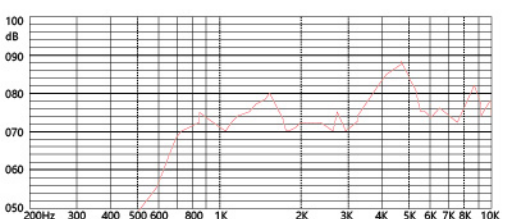
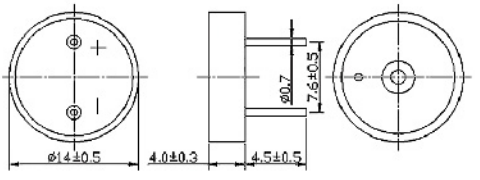
HNR-1325

Item	Unit	HNR-1325
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 8
Sound Pressure Level	dB	MIN. 75
Electrostatic Capacity	pF	25000±30%
Dimension	mm	Φ13 x H2.5
Weight(MAX)	gram	2.5



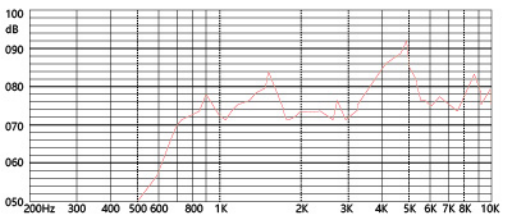
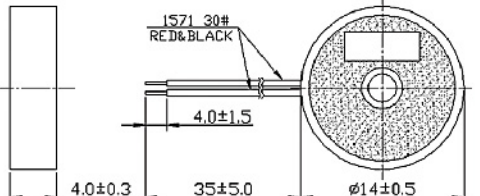
HNR-1404

Item	Unit	HNR-1404
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 75
Electrostatic Capacity	pF	12000±30%
Dimension	mm	Φ13.8 x H4
Weight(MAX)	gram	2.5



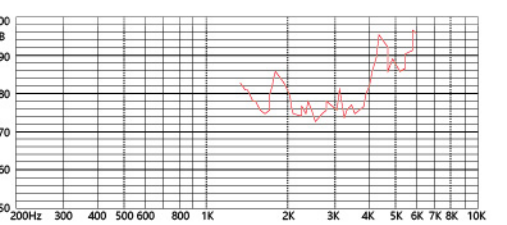
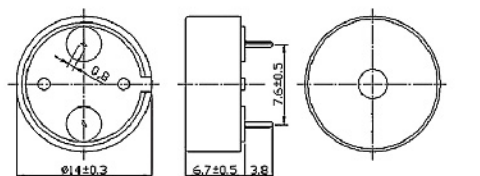
HNR-1404L

Item	Unit	HNR-1404L
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	pF	25000±30%
Dimension	mm	Φ14 x H4
Weight(MAX)	gram	2.0



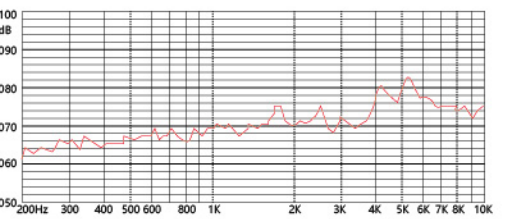
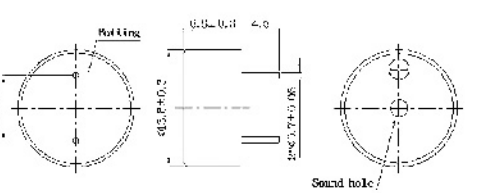
HNR-1407TP

Item	Unit	HNR-1407TP
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate	nF	12±30%
Dimension	mm	Φ14 x H 7.0
Weight(MAX)	gram	2.5



HNR-1407A

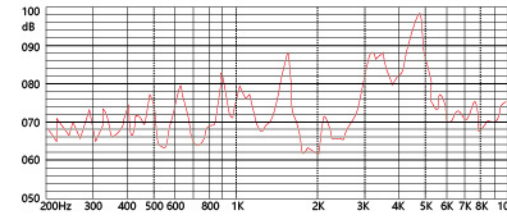
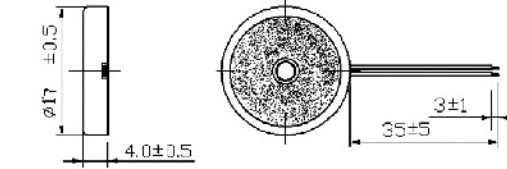
Item	Unit	HNR-1407A
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	pF	12000±30%
Dimension	mm	Φ13.8 x H6.8
Weight(MAX)	gram	2.5



HNR-1704L



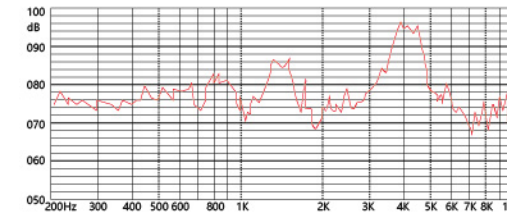
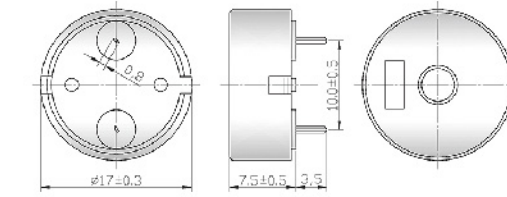
Item	Unit	HNR-1704L
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	3
Current Consumption	mA	MAX. 2
Sound Pressure Level	dB	MIN. 78
Electrostatic Capacity	pF	11000±30%
Dimension	mm	Φ16.8 x H4
Weight(MAX)	gram	2.0



HNR-1707TP



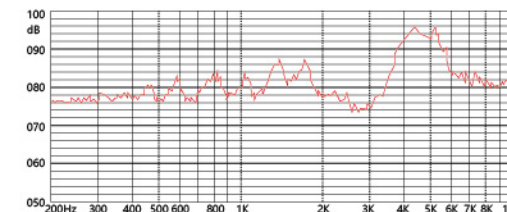
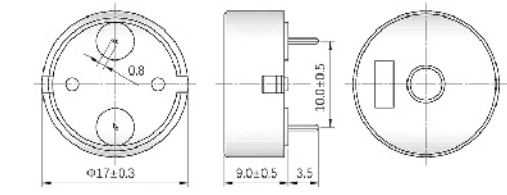
Item	Unit	HNR-1707TP
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	nF	16±30%
Dimension	mm	Φ17 x H 7.5
Weight(MAX)	gram	2.5



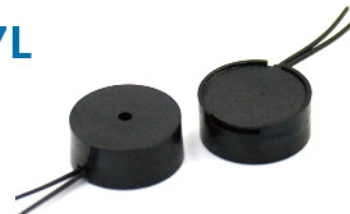
HNR-1709TP



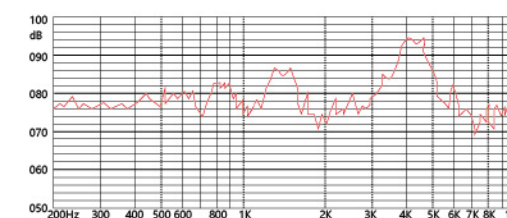
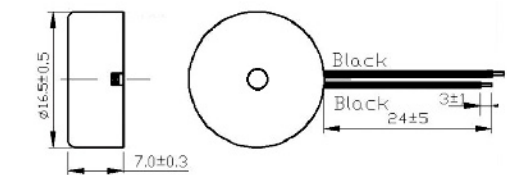
Item	Unit	HNR-1709TP
Oscillation Frequency	Hz	2000
Operating Voltage	Vp-p	1 ~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Tone/Pulse Rate	nF	23±30%
Dimension	mm	Φ17 x H 9.0
Weight(MAX)	gram	2.0



HNR-1707L



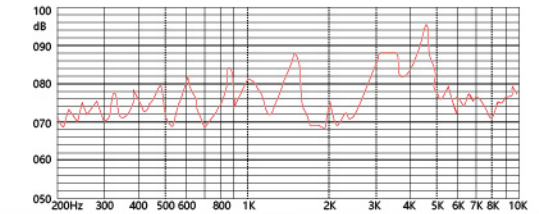
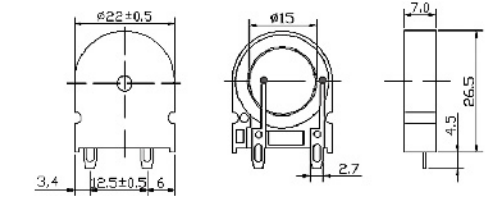
Item	Unit	HNR-1707L
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 20
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	nF	15±30%
Dimension	mm	Φ16.5 x H 7.0
Weight(MAX)	gram	2.5



HNR-2207



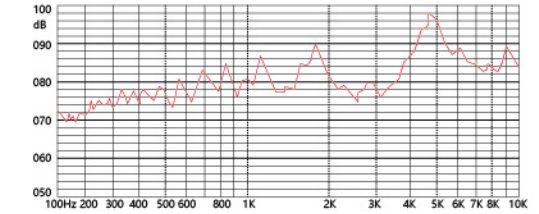
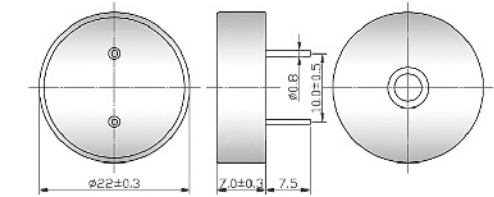
Item	Unit	HNR-2207
Oscillation Frequency	Hz	2000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	3
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 75
Electrostatic Capacity	pF	20000±30%
Dimension	mm	Φ22 x H7
Weight(MAX)	gram	4.0



HNR-2207P



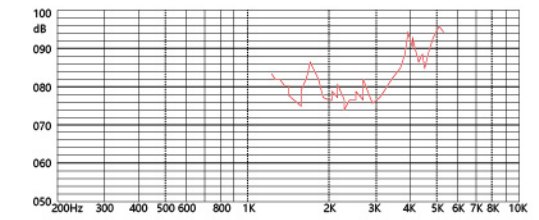
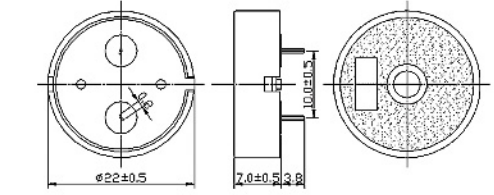
Item	Unit	HNR-2207P
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	9
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 85
Electrostatic Capacity	pF	15000±30%
Dimension	mm	Φ22 x H7
Weight(MAX)	gram	4.0



HNR-2207TP



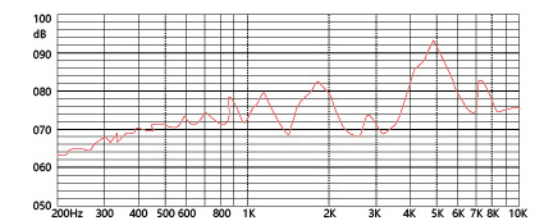
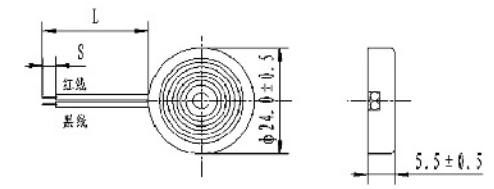
Item	Unit	HNR-2207TP
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1 ~ 25
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate	nF	28±30%
Dimension	mm	Φ22 x H 7.0
Weight(MAX)	gram	2.5



HNR-2455



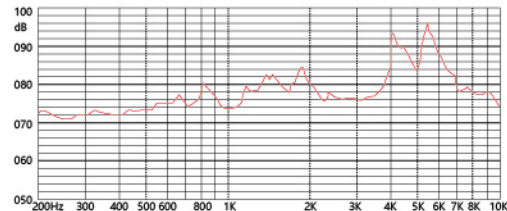
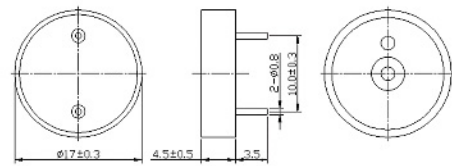
Item	Unit	HNR-2455
Oscillation Frequency	Hz	4100
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	10
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 90
Electrostatic Capacity	pF	25000±30%
Dimension	mm	Φ24 x H4.5
Weight(MAX)	gram	5.0



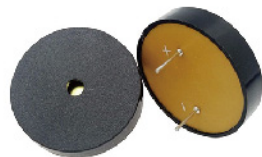
HNR-1745



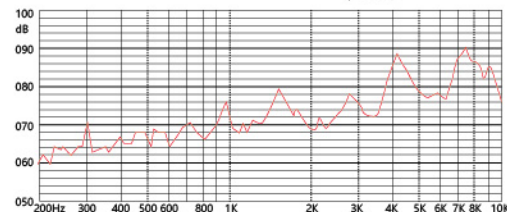
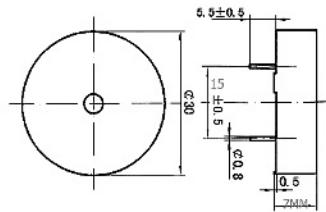
Item	Unit	HNR-1745
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	5
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	nF	14±30%
Dimension	mm	Φ17 x H 4.5
Weight(MAX)	gram	1.0



HNR-3007



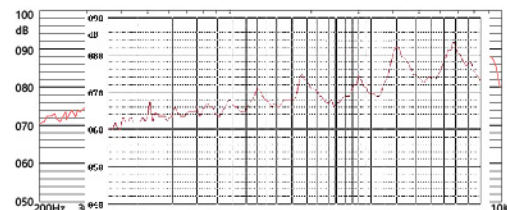
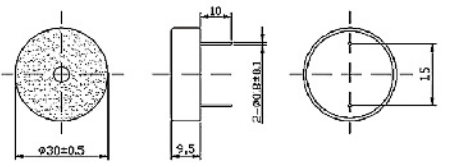
Item	Unit	HNR-3007
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	10
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 90
Electrostatic Capacity	pF	30000±30%
Dimension	mm	Φ29.5 x H7
Weight(MAX)	gram	5.0



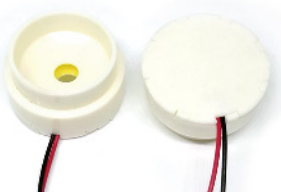
HNR-3010



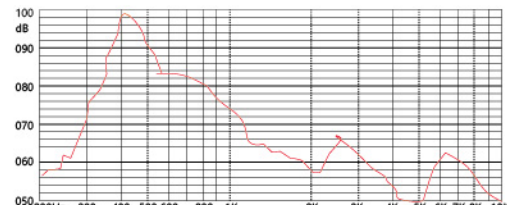
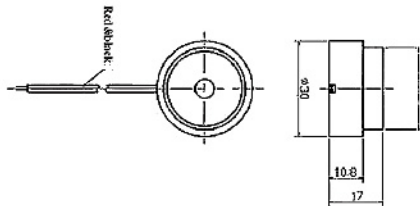
Item	Unit	HNR-3010
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	12
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 85
Electrostatic Capacity	pF	30000±30%
Dimension	mm	Φ30 x H10
Weight(MAX)	gram	5.0



HNR-3017



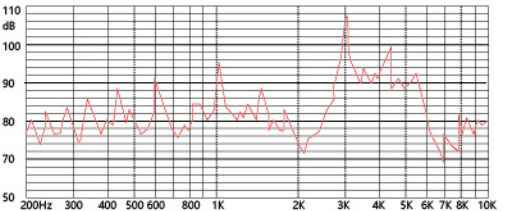
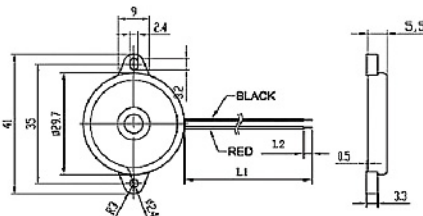
Item	Unit	HNR-3017
Oscillation Frequency	Hz	3600±500
Operating Voltage	Vp-p	6~ 28
Rated Voltage	Vp-p	9
Current Consumption	mA	MAX. 10
Sound Pressure Level	dB	MIN. 90
Electrostatic Capacity	pF	25000±30%
Dimension	mm	Φ30 x H17
Weight(MAX)	gram	3.0



HNR-3006



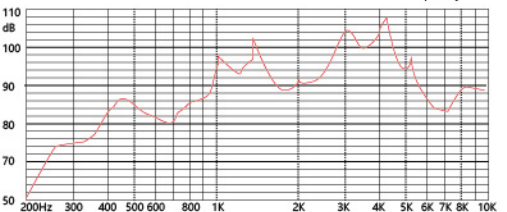
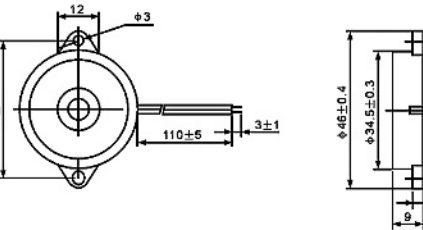
Item	Unit	HNR-3006
Oscillation Frequency	Hz	4000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	3
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	pF	4000±30%
Dimension	mm	Φ30x H5.5
Weight(MAX)	gram	4.0



HNR-3409



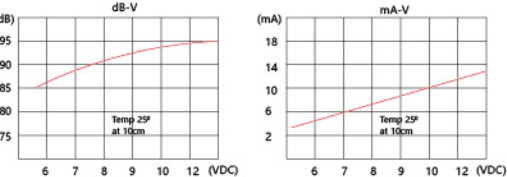
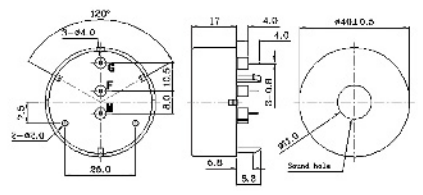
Item	Unit	HNR-3409
Oscillation Frequency	Hz	1100
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	9
Current Consumption	mA	MAX. 3
Sound Pressure Level	dB	MIN. 80
Electrostatic Capacity	pF	45000±30%
Dimension	mm	Φ34.5 x H9.2
Weight(MAX)	gram	5.0



HNR-3917



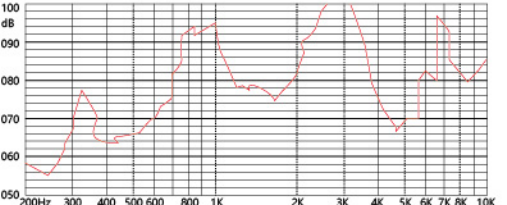
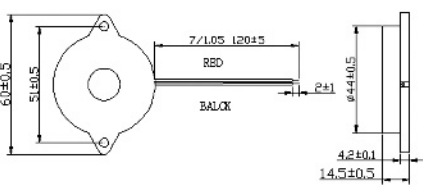
Item	Unit	HNR-3917
Oscillation Frequency	Hz	3400
Operating Voltage	Vp-p	4~ 15
Rated Voltage	Vp-p	9
Current Consumption	mA	MAX. 15
Sound Pressure Level	dB	MIN. 95
Electrostatic Capacity	pF	30000±30%
Dimension	mm	Φ39 x H17
Weight(MAX)	gram	11.0



HNR-4414



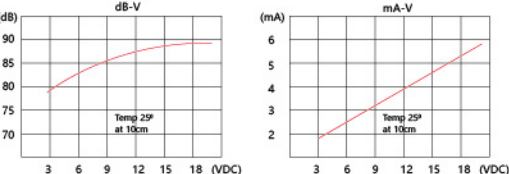
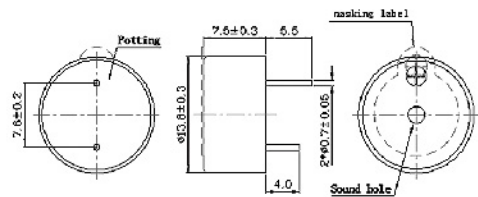
Item	Unit	HNR-4414
Oscillation Frequency	Hz	1000
Operating Voltage	Vp-p	1~ 30
Rated Voltage	Vp-p	12
Current Consumption	mA	MAX. 5
Sound Pressure Level	dB	MIN. 85
Electrostatic Capacity	pF	65000±30%
Dimension	mm	Φ44 x H14
Weight(MAX)	gram	8.0



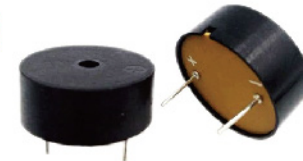
HNR-1407B



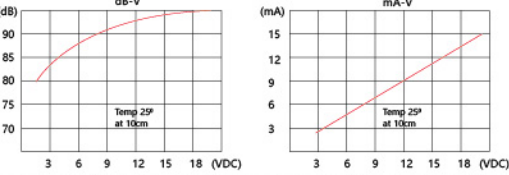
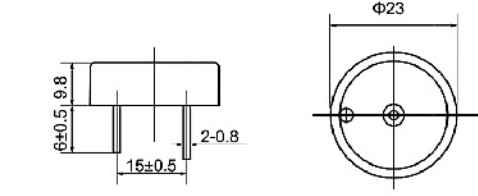
Item	Unit	HNR-1407B
Oscillation Frequency	KHz	4.1±0.5
Operating Voltage	VDC	6 ~ 15
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 16
Sound Pressure Level	dB	MIN. 93
Tone/Pulse Rate		Constant
Dimension	mm	Φ13.8 x H7.5
Weight(MAX)	gram	4.0



HNR-2310B



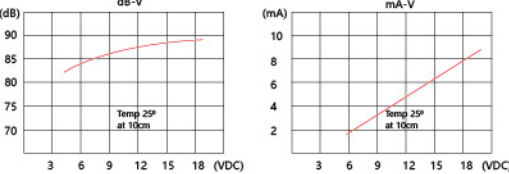
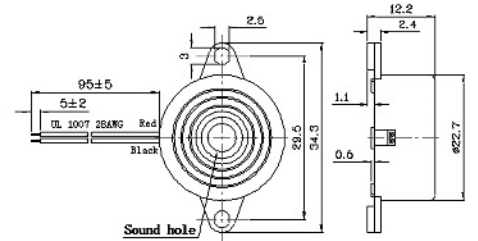
Item	Unit	HNR-2310B
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 15
Sound Pressure Level	dB	MIN. 90
Tone/Pulse Rate		Constant
Dimension	mm	Φ23 x H9.8
Weight(MAX)	gram	



HNR-2312



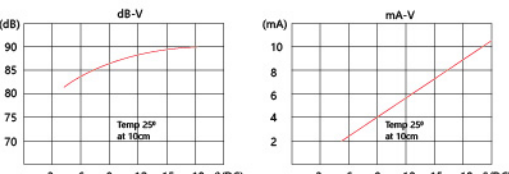
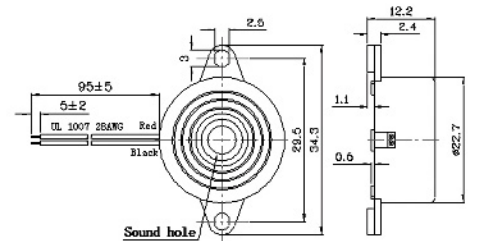
Item	Unit	HNR-2312
Oscillation Frequency	KHz	3.0±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 8
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ22.7 x H12.2
Weight(MAX)	gram	



HNR-2312W



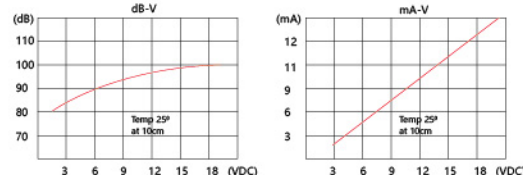
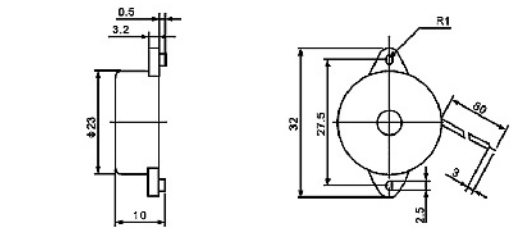
Item	Unit	HNR-2312W
Oscillation Frequency	KHz	3.0±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 8
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Fast Pulse
Dimension	mm	Φ22.7 x H12.2
Weight(MAX)	gram	8.0



HND-2310E



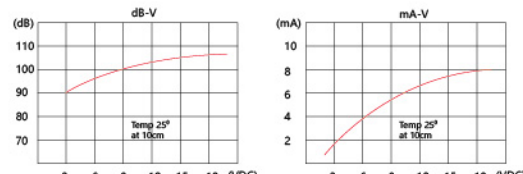
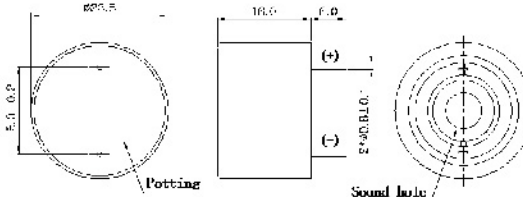
Item	Unit	HND-2310E
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 24
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 10
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ23 x H10
Weight(MAX)	gram	4.0



HND-2316



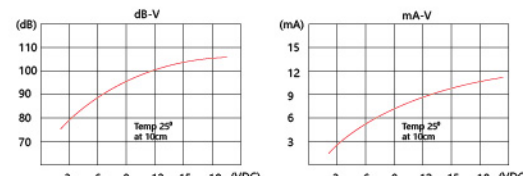
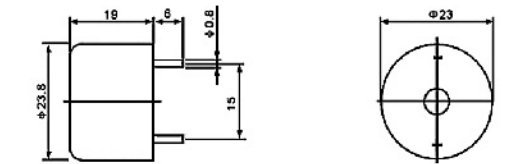
Item	Unit	HND-2316H
Oscillation Frequency	KHz	3.3±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 10
Sound Pressure Level	dB	MIN. 90
Tone/Pulse Rate		Constant
Dimension	mm	Φ23.5 x H16
Weight(MAX)	gram	8.0



HND-2319



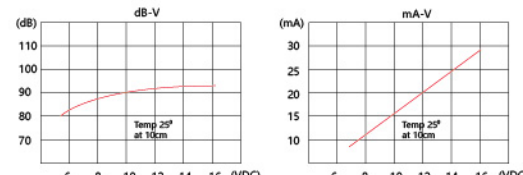
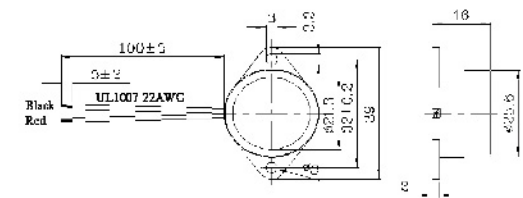
Item	Unit	HND-2319
Oscillation Frequency	KHz	3.3±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 20
Sound Pressure Level	dB	MIN. 95
Tone/Pulse Rate		Constant
Dimension	mm	Φ23.3 x H19
Weight(MAX)	gram	5.5



HND-2616



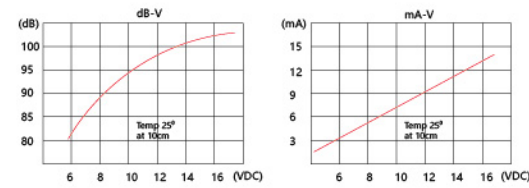
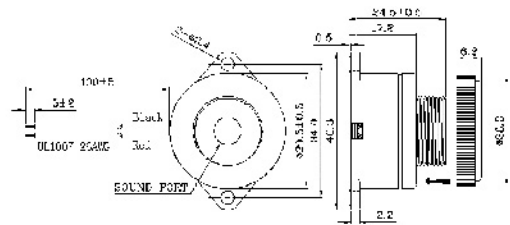
Item	Unit	HND-2616
Oscillation Frequency	KHz	2.8±0.5
Operating Voltage	VDC	6 ~ 14
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 35
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ25.6 x H16
Weight(MAX)	gram	41.0



HND-2910



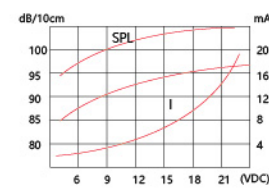
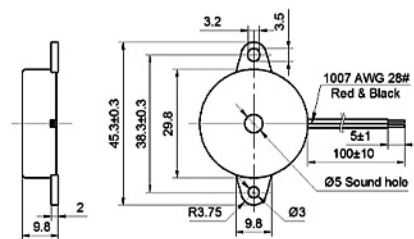
Item	Unit	HND-2910
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 12
Sound Pressure Level	dB	MIN. 100
Tone/Pulse Rate		Constant / Pulse
Dimension	mm	Φ29x H24.5
Weight(MAX)	gram	4.0



HND-3095



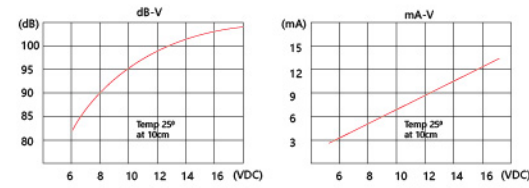
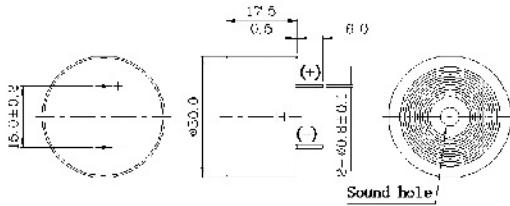
Item	Unit	HND-3095
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 12
Sound Pressure Level	dB	MIN. 95
Tone/Pulse Rate		Constant
Dimension	mm	Φ30x H9.5
Weight(MAX)	gram	6.0



HND-3017



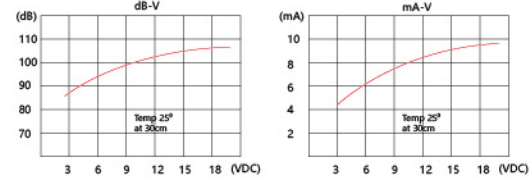
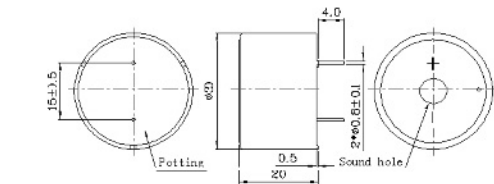
Item	Unit	HND-3017
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 28
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 15
Sound Pressure Level	dB	MIN. 100
Tone/Pulse Rate		Constant
Dimension	mm	Φ30x H17.5
Weight(MAX)	gram	8.0



HND-3020



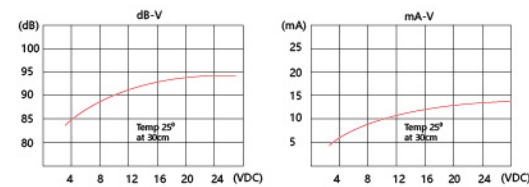
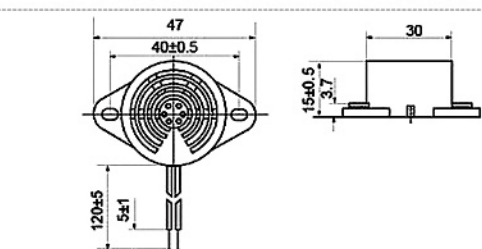
Item	Unit	HND-3020
Oscillation Frequency	KHz	3.5±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 15
Sound Pressure Level	dB	MIN. 90
Tone/Pulse Rate		Constant
Dimension	mm	Φ30x H20
Weight(MAX)	gram	8.0



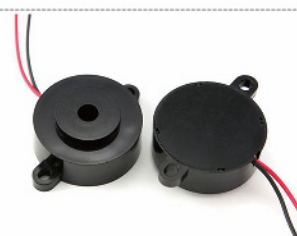
HND-3015A/3015B



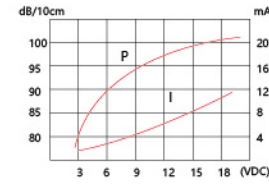
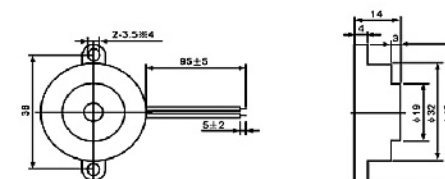
Item	Unit	HND-3015A/3015B
Oscillation Frequency	KHz	3.0±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 10
Sound Pressure Level	dB	MIN. 80
Tone/Pulse Rate		Constant / Pulse
Dimension	mm	Φ30x H15
Weight(MAX)	gram	8.0



HND-3215



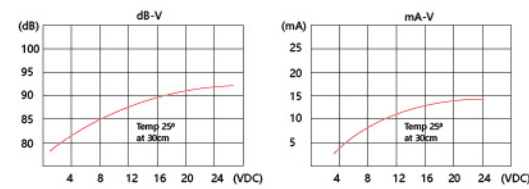
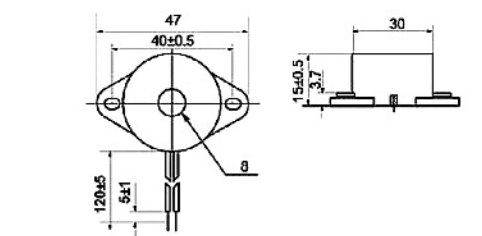
Item	Unit	HND-3215
Oscillation Frequency	KHz	3.9±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	12
Current Consumption	mA	MAX. 12
Sound Pressure Level	dB	MIN. 95
Tone/Pulse Rate		Constant
Dimension	mm	Φ32x H15
Weight(MAX)	gram	8.0



HND-3015D



Item	Unit	HND-3015D
Oscillation Frequency	KHz	3.0±0.5
Operating Voltage	VAC	3 ~ 24
Rated Voltage	VAC	12
Current Consumption	mA	MAX. 11
Sound Pressure Level	dB	MIN. 85
Tone/Pulse Rate		Constant
Dimension	mm	Φ30x H15
Weight(MAX)	gram	8.0



HND-4020



Item	Unit	HND-4020
Oscillation Frequency	KHz	2.8±0.5
Operating Voltage	VDC	3 ~ 20
Rated Voltage	VDC	9
Current Consumption	mA	MAX. 50
Sound Pressure Level	dB	MIN. 100
Tone/Pulse Rate		Constant
Dimension	mm	Φ40x H20
Weight(MAX)	gram	13.0

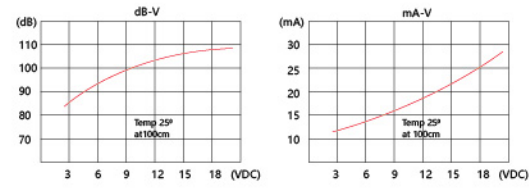
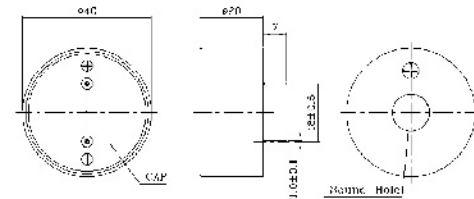


Figure 1 consists of four parts: (a) a top view of the probe head, (b) a side view, (c) a graph of dB-V vs V(DC), and (d) a graph of mA-V vs V(DC).

(a) Top view: A circular probe head with a diameter of $\phi 41.8$ mm. The total width is 60 mm. The central pin has a diameter of $\phi 3.5$ mm and a length of 140 ± 5 mm. The pin is positioned 10 mm from the bottom edge of the head.

(b) Side view: A side view of the probe head showing a total height of 16 mm.

(c) Graph of dB-V vs V(DC): The y-axis is labeled dB-V and ranges from 80 to 100. The x-axis is labeled V(DC) and ranges from 3 to 18. The curve shows a non-linear response, starting at approximately 82 dB-V at 3 V(DC) and rising to approximately 94 dB-V at 18 V(DC). The text "Temp 25P at 10cm" is present.

(d) Graph of mA-V vs V(DC): The y-axis is labeled mA-V and ranges from 2 to 10. The x-axis is labeled V(DC) and ranges from 3 to 18. The curve shows a linear response, starting at approximately 2.5 mA-V at 3 V(DC) and rising to approximately 8.5 mA-V at 18 V(DC). The text "Temp 25P at 10cm" is present.

Technical drawing of a 25W vacuum tube (6X4) showing front and side views with dimensions and characteristic graphs.

Dimensions:

- Top diameter: $\Phi 3.5$
- Overall height: 60
- Internal diameter: $\Phi 41.8$
- Base diameter: 10
- Pin diameter: 5 ± 2
- Pin spacing: 140 ± 5
- Side view height: 18

Graphs:

dB-V (dB vs V):

V (V)	dB-V (dB)
3	82
6	88
9	90
12	92
15	93
18	94

mA-V (mA vs V):

V (V)	mA-V (mA)
3	2.5
6	3.5
9	4.5
12	5.5
15	6.5
18	7.5

Technical drawing of a 25W 1000Hz vacuum tube. The drawing includes three views: a top view, a side view, and a front view. Dimensions are in mm.

- Top View:** Circular base with a diameter of 31.4 mm. A central pin is shown with a diameter of 1.0 mm. The base has a thickness of 2.0 mm. The overall height of the base is 4.0 mm.
- Side View:** Shows the tube's profile. The total height is 44.0 mm. The base diameter is 24.2 mm. The tube has a length of 44.0 mm.
- Front View:** Shows the internal structure. The diameter is 24.0 mm. The height is 44.0 mm. The tube has a length of 44.0 mm.

Below the drawing are two graphs:

- dB-V Graph:** Shows gain (dB) vs. frequency (Hz). The gain increases from approximately 78 dB at 1 Hz to 87 dB at 1000 Hz. The graph is labeled "Temp 25P at 10mm".
- mA-V Graph:** Shows current (mA) vs. voltage (V). The current increases linearly from approximately 14 mA at 1 V to 22 mA at 1000 V. The graph is labeled "Temp 25P at 10mm".

[illegible]

Figure 1 consists of a schematic diagram of the proposed antenna and two performance graphs. The schematic diagram shows a circular antenna with a diameter of 131.9 mm, a feed point with a diameter of 7.3 mm, and a feed line with a diameter of 12.8 mm. The antenna is connected to a matching network consisting of a series inductor with an inductance of 10.5 nH and a shunt capacitor with a capacitance of 20.5 pF. The antenna is mounted on a substrate with a thickness of 1.6 mm and a dielectric constant of 4.4. The antenna is connected to a ground plane with a diameter of 131.9 mm. The performance graphs show the antenna's gain and efficiency. The gain graph shows a gain of 10 dB at 10 cm, and the efficiency graph shows an efficiency of 10% at 10 cm. Both graphs are for a temperature of 25°C.

Technical drawing of the 250W/100mm lamp showing dimensions: 100, 47.5 ± 0.5, 2 x Ø 6.5, 2 x Ø 3.5, and 25.3.

Graphs showing dB-VAC and mA-VAC curves for Temp 25°C at 100cm.

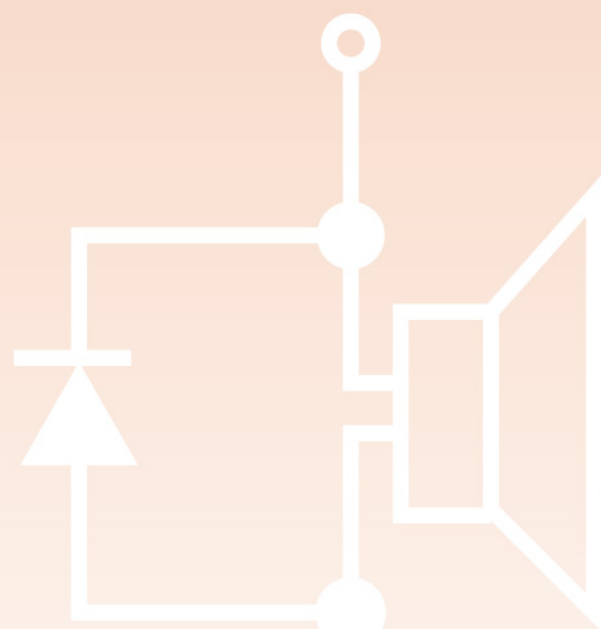
dB-VAC Graph:

Distance (cm)	dB-VAC
100	100
1000	115
10000	130

mA-VAC Graph:

Distance (cm)	mA-VAC
100	60
1000	100
10000	120

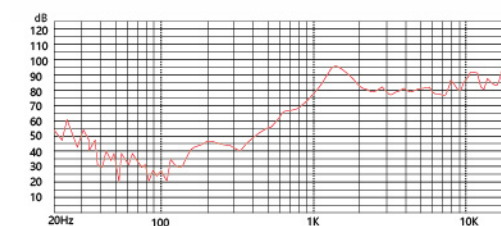
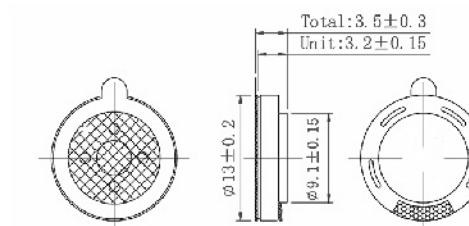
Speaker



HS13MS0810 -H3.5



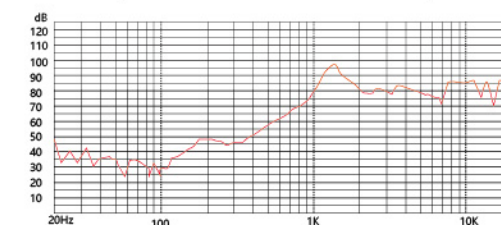
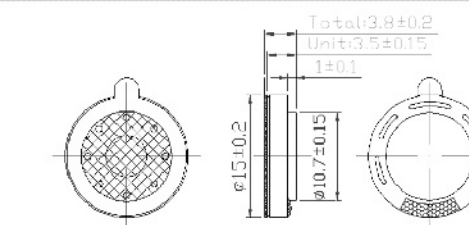
Item	Specification	Testing Condition
Rated Imp	$8\Omega \pm 15\%$	
Resonance Freq	$1400\text{Hz} \pm 20\%$	Without Baffle
Output S.P.L.	$82 \pm 3\text{dB}$	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	$\Phi 13 \times \text{H}3.5 \text{ mm}$	
Weight (MAX)	1	



HS15MS0810 -H4.0



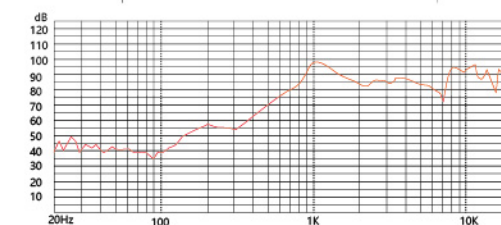
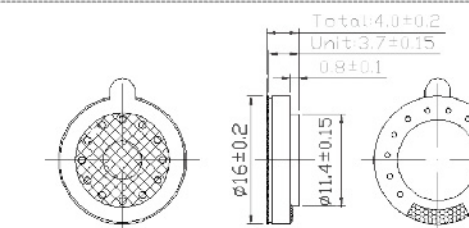
Item	Specification	Testing Condition
Rated Imp	$8\Omega \pm 15\%$	
Resonance Freq	$1200\text{Hz} \pm 20\%$	Without Baffle
Output S.P.L.	$82 \pm 3\text{dB}$	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	$\Phi 15 \times \text{H}4.0 \text{ mm}$	
Weight (MAX)	1.3	



HS16MS0810 -H4.0



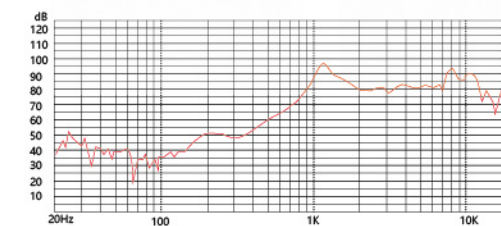
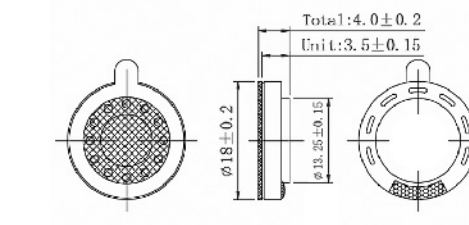
Item	Specification	Testing Condition
Rated Imp	$8\Omega \pm 15\%$	
Resonance Freq	$1000\text{Hz} \pm 20\%$	Without Baffle
Output S.P.L.	$87 \pm 3\text{dB}$	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	$\Phi 16 \times \text{H}4.0 \text{ mm}$	
Weight (MAX)	1.5	



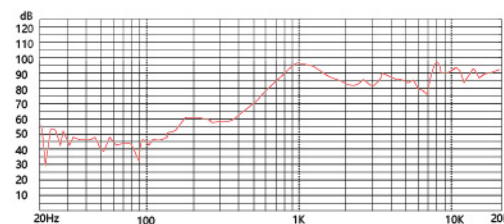
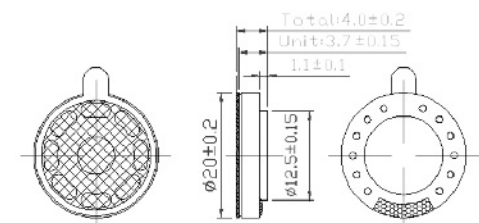
HS18MS0810 -H4.0



Item	Specification	Testing Condition
Rated Imp	$8\Omega \pm 15\%$	
Resonance Freq	$1300\text{Hz} \pm 20\%$	Without Baffle
Output S.P.L.	$89 \pm 3\text{dB}$	At 0.1m 0.1w 1.0,1.2,1.5,2.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----20kHz	
Dimension	$\Phi 18 \times \text{H}4.0 \text{ mm}$	
Weight (MAX)	2.0	

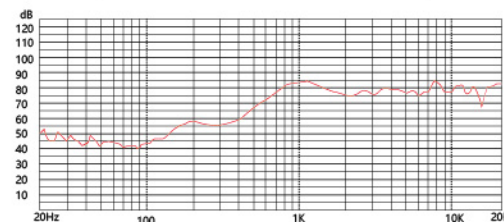
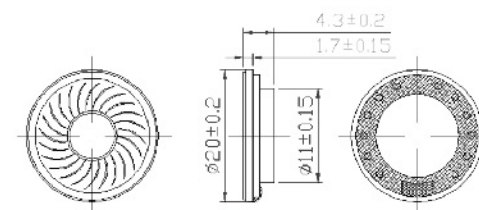


HS20P0810 -H4.0



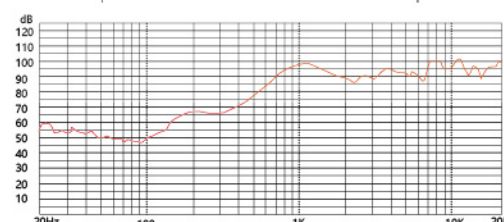
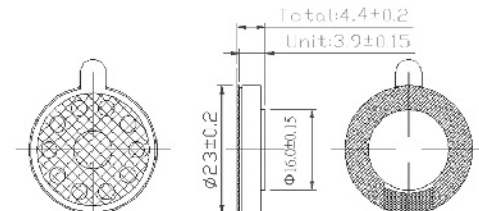
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	900Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ20 x H4.0 mm	
Weight (MAX)	1.8	

HS20MS0810 -H4.3



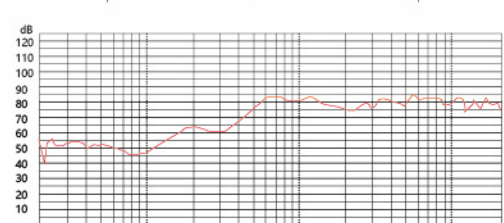
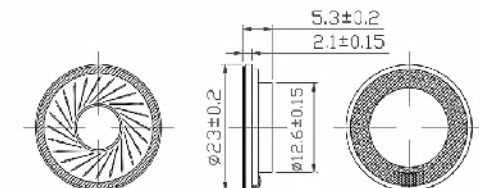
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	900Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ20 x H4.3 mm	
Weight (MAX)	2.8	

HS23P0810 -H4.4



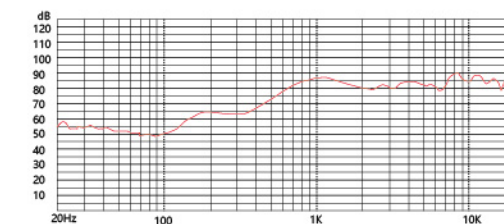
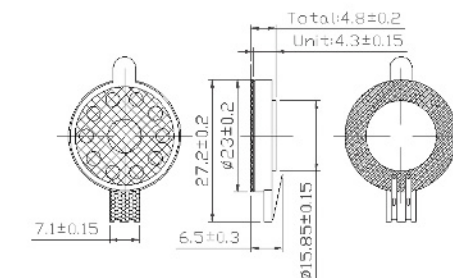
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	670Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ23 x H4.4 mm	
Weight (MAX)	3	

HS23MS0420 -H5.3



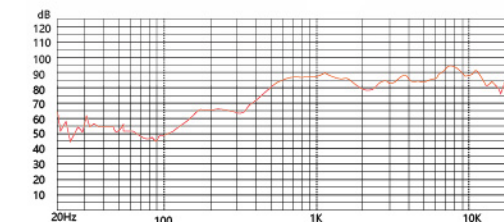
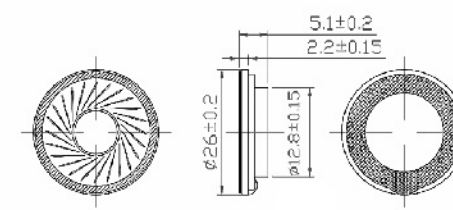
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	630Hz±20%	Without Baffle
Output S.P.L.	82±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	2.5 W	at 3.17 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ20 x H5.3 mm	
Weight (MAX)	3.8	

HS23NS0810 -H4.8TP



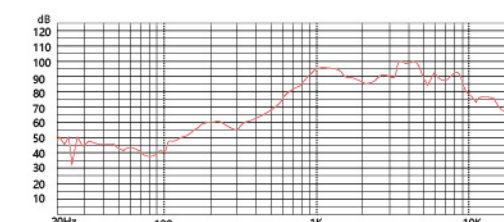
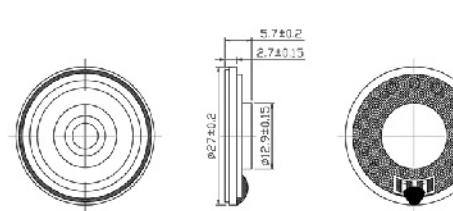
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	670Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ23 x H4.8 mm	
Weight (MAX)	3.5	

HS26MS0810 -H5.1



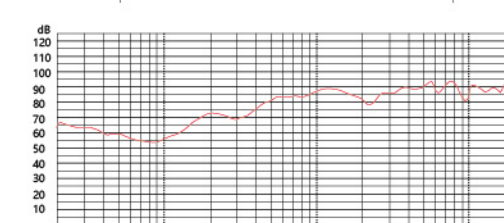
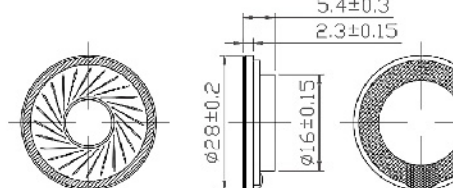
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	650Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ26 x H5.1 mm	
Weight (MAX)	5	

HS27MS0820 -H5.7



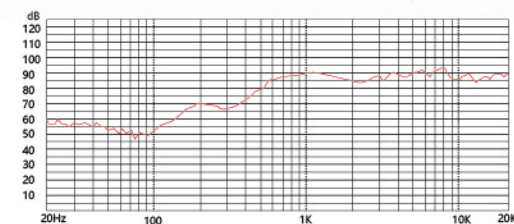
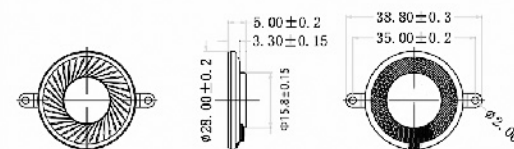
Item	Specification	Testing Condition
RRated Imp	8Ω ± 15%	
Resonance Freq	980Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ27 x H5.7 mm	
Weight (MAX)	5	

HS28MS0820 -H5.4



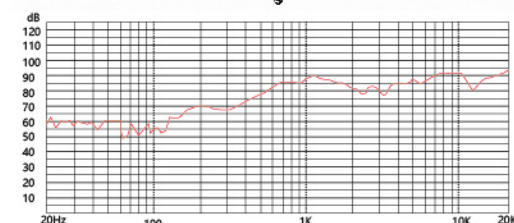
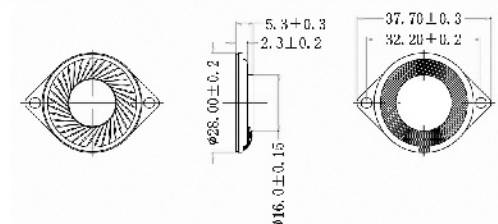
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	580Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ28 x H5.4 mm	
Weight (MAX)	5.0	

HS28MS0810 -H5.0-R



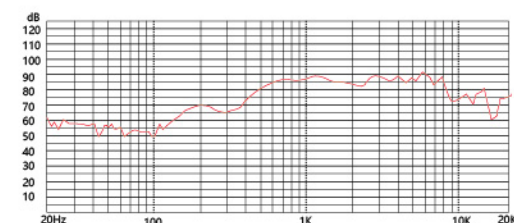
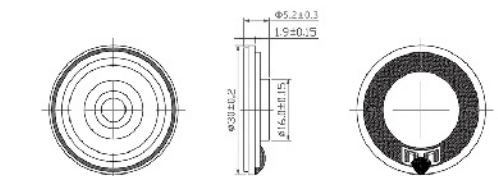
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	680Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ28 x H5.0 mm	
Weight (MAX)	7.0	

HS28MS0810 -H5.3-VR



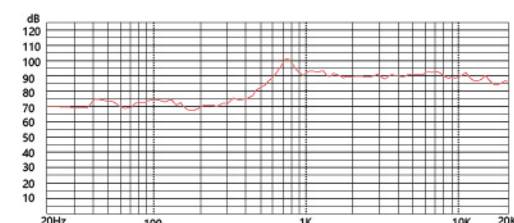
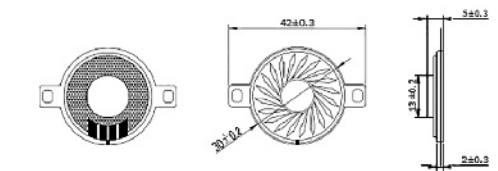
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	620Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ26 x H5.1 mm	
Weight (MAX)	8	

HS30MS0820 -H5.2



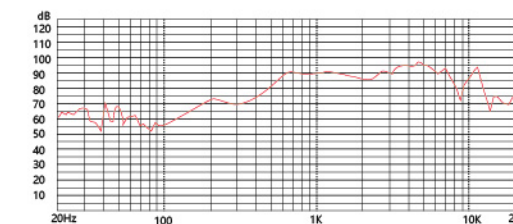
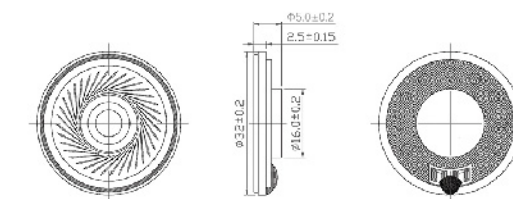
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	600Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ30 x H5.2 mm	
Weight (MAX)	7	

HS30MS0810 -H5.0-R



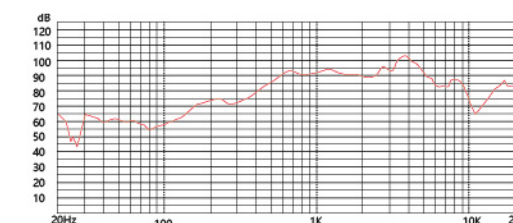
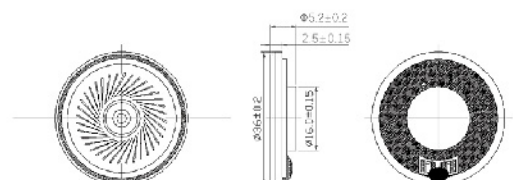
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	700Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ30 x H5.0 mm	
Weight (MAX)	7	

HS32MS0810 -H5.0



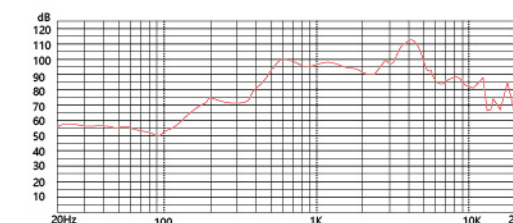
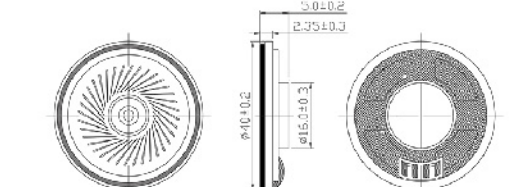
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	650Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ32 x H5.0 mm	
Weight (MAX)	8	

HS36MS0820 -H5.2



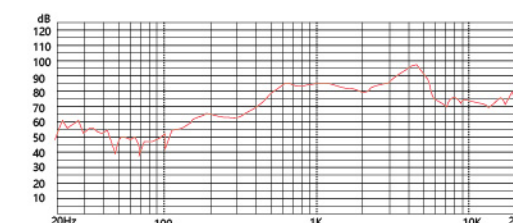
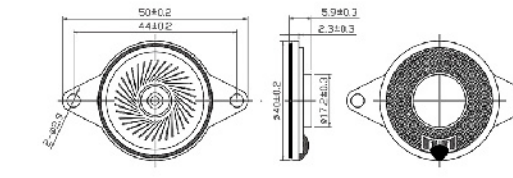
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	600Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ36 x H5.2 mm	
Weight (MAX)	9.0	

HS40MS0820 -H5.0



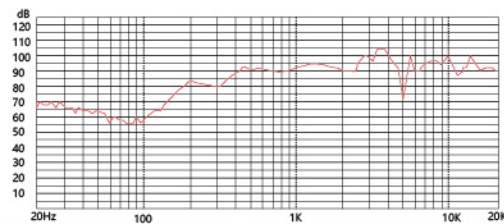
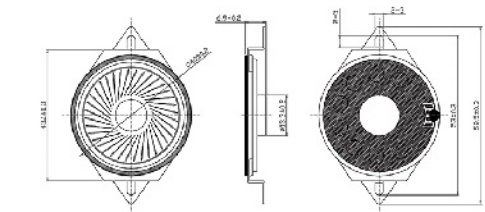
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	600Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ40 x H5.0 mm	
Weight (MAX)	10.0	

HS40MS0410 -H5.9-R



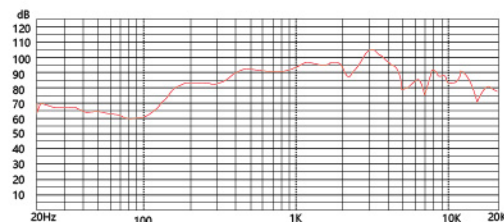
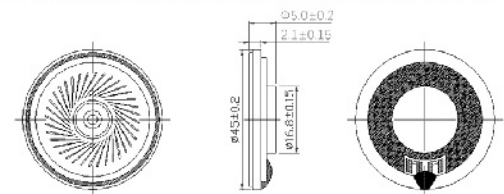
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	630Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.0 Vrms
Max Power	2.0 W	at 2.83 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ40 x H5.9 mm	
Weight (MAX)	11.0	

HS40MS0810 -H6.9-ZR



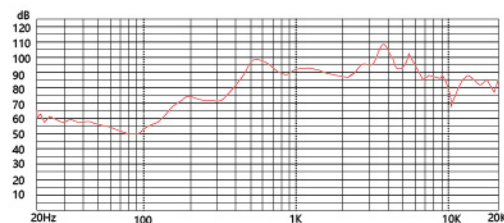
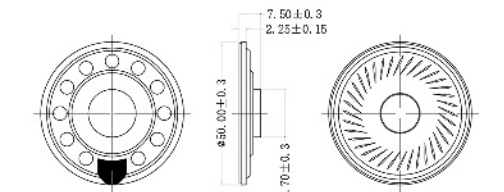
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	460Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ40 x H6.9 mm	
Weight (MAX)	11.0	

HS45MS0820 -H5.0



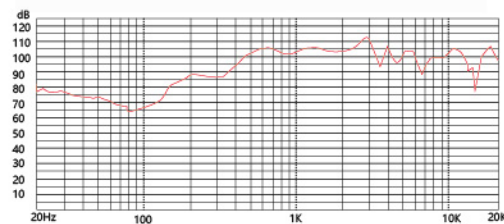
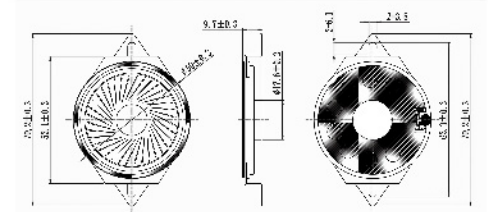
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	420Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ45 x H5.0 mm	
Weight (MAX)	10.0	

HS50MS0820 -H7.5



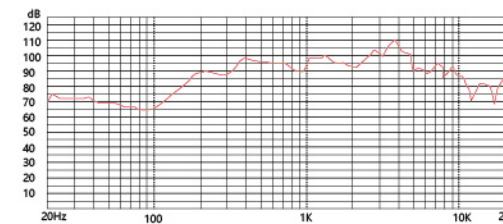
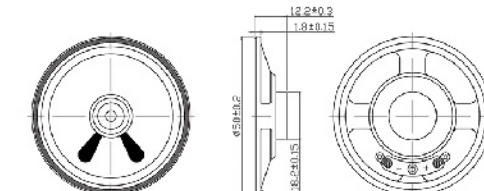
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	520Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ50 x H7.5 mm	
Weight (MAX)	13.0	

HS50MS0820 -H9.7-R



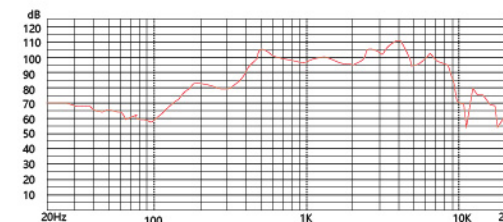
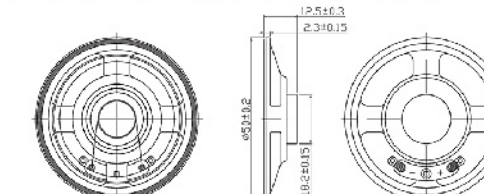
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	500Hz±20%	Without Baffle
Output S.P.L.	99±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ50 x H9.7 mm	
Weight (MAX)	15.0	

HS50DS0830 -H12.2



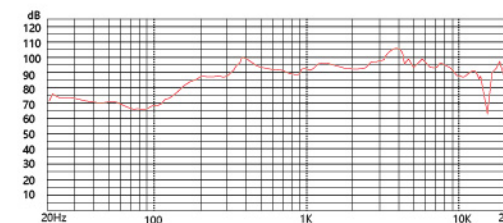
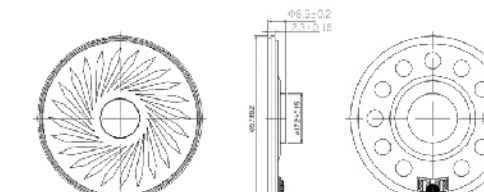
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	380Hz±20%	Without Baffle
Output S.P.L.	95±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	3.0 W	at 4.89 Vrms
Max Power	4.0 W	at 5.65 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ50 x H12.2 mm	
Weight (MAX)	17.0	

HS50DS0430 -H12.5



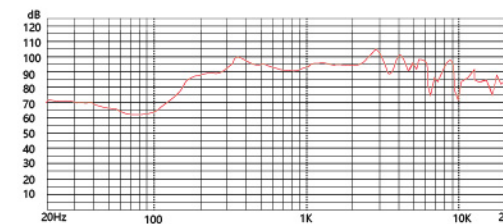
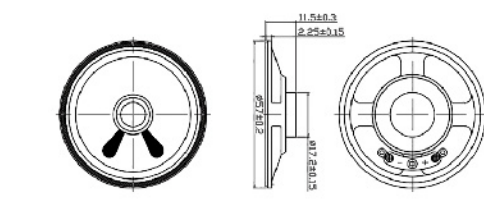
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	490Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ50 x H12.5 mm	
Weight (MAX)	17.0	

HS57MS0820 -H8.5



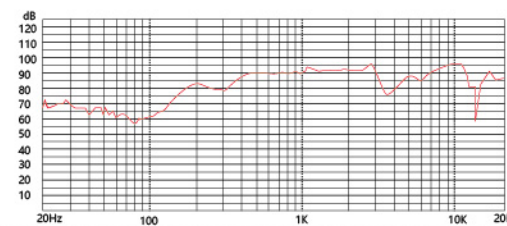
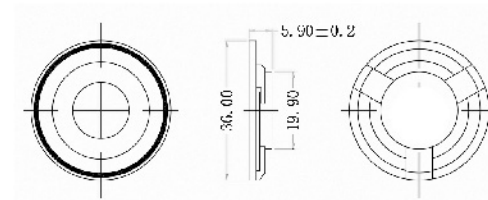
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	380Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ50 x H8.5 mm	
Weight (MAX)	17.0	

HS57DS0830 -H11.5



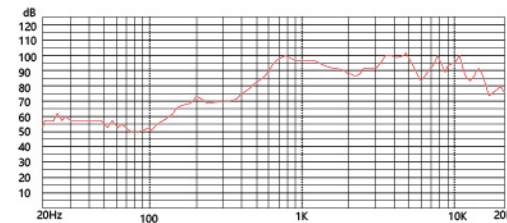
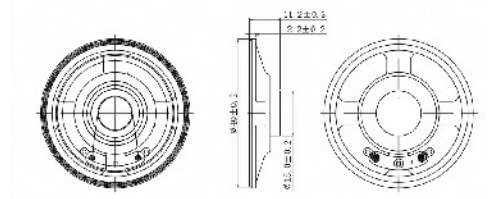
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	380Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	3.0 W	at 4.89 Vrms
Max Power	3.5 W	at 5.29 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ57 x H11.5 mm	
Weight (MAX)	15.0	

HS36NS0420 -H5.9



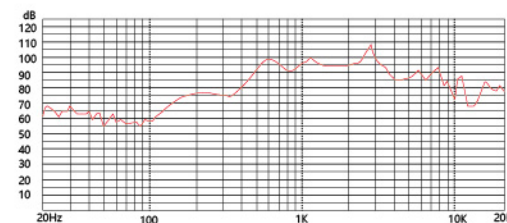
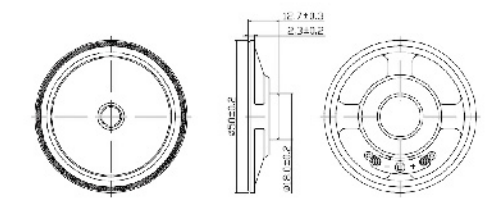
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	420Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	3.0 W	at 3.47 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ36 x H5.9 mm	
Weight (MAX)	6.5	

HS40DS0820 -H11.2



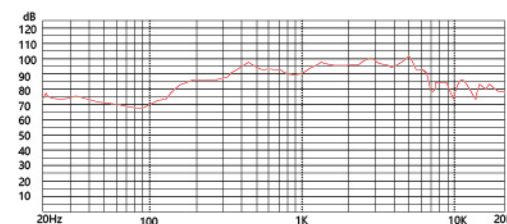
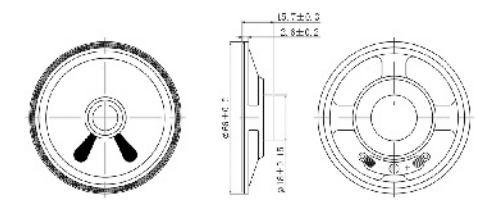
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	720Hz±20%	Without Baffle
Output S.P.L.	95±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	3.0 W	at 4.9 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ40 x H11.2 mm	
Weight (MAX)	13.5	

HS50DS0430 -H12.7 PEI



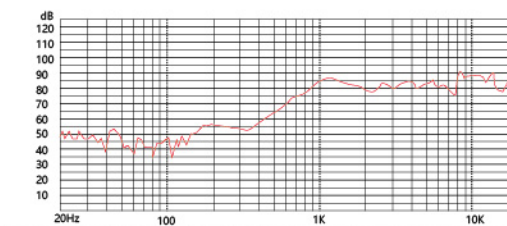
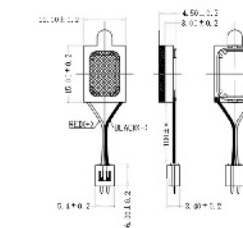
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	520Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	4.0 W	at 4.0 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ50 x H12.7 mm	
Weight (MAX)	17.0	

HS66DS0830 -H15.7



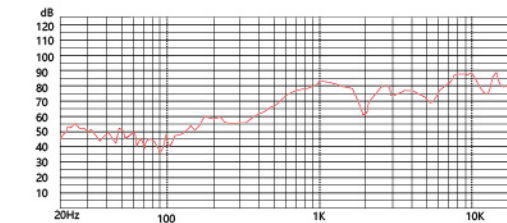
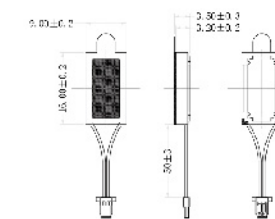
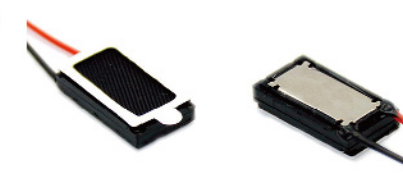
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	430Hz±20%	Without Baffle
Output S.P.L.	95±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	3.0 W	at 4.9 Vrms
Max Power	3.0 W	at 4.9 Vrms
Frequency Range	FO----6kHz	
Dimension	Φ57 x H15.7 mm	
Weight (MAX)	21.0	

HS1511MS0805 -H4.5



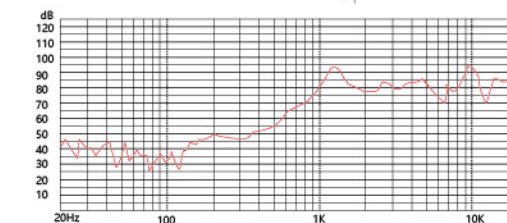
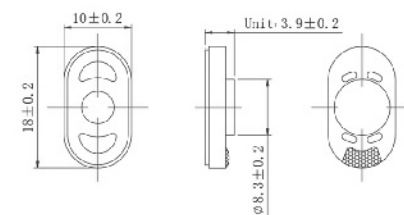
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	At 1kHz 1Vrms
Resonance Freq	750Hz±20%	Without Baffle
Output S.P.L.	83±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	0.5 W	at 2.0 Vrms
Max Power	0.8 W	at 2.53 Vrms
Frequency Range	FO----20kHz	
Dimension	15 x 11 mm	
Weight (MAX)	1.5	

HS1609P01 -H3.5



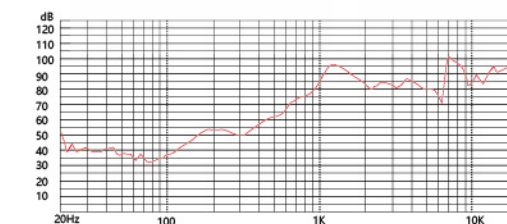
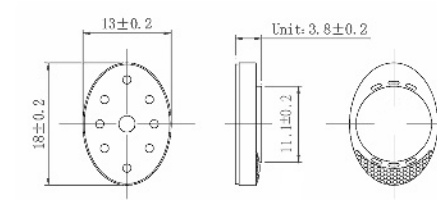
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	650Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	0.8 W	at 2.37 Vrms
Max Power	1.0 W	at 2.83 Vrms
Frequency Range	FO----10kHz	
Dimension	16 x 9 mm	
Weight (MAX)	1.5	

HS1810MS0810 -H3.9



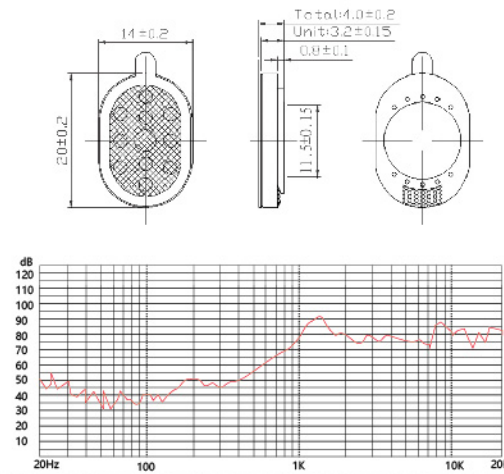
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	1300Hz±20%	Without Baffle
Output S.P.L.	84±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.2 W	at 3.1 Vrms
Frequency Range	FO----20kHz	
Dimension	18 x 10 mm	
Weight (MAX)	1.5	

HS1813MS0810 -H3.8



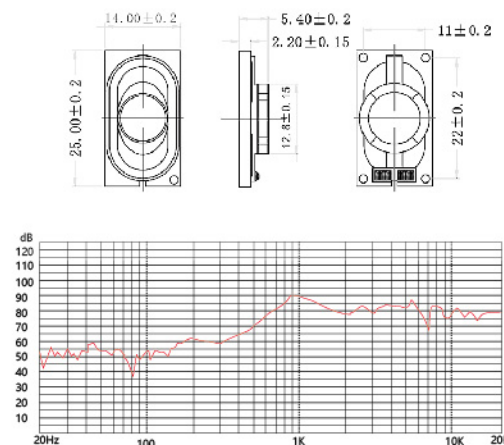
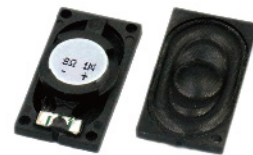
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	1200Hz±20%	Without Baffle
Output S.P.L.	83±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----6kHz	
Dimension	18 x 13 mm	
Weight (MAX)	1.5	

HS2014MS0810 -H4.5



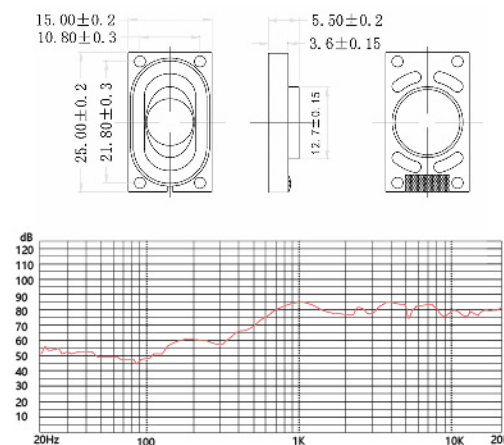
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	950Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 0.8,1.0,1.5,2.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.46 Vrms
Frequency Range	FO----20kHz	
Dimension	20 x 14 mm	
Weight (MAX)	1.8	

HS2514NS0810 -H5.4



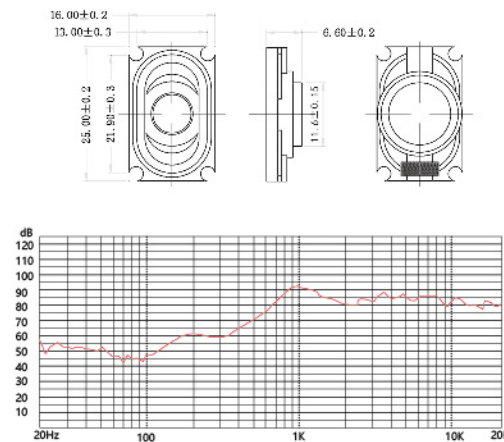
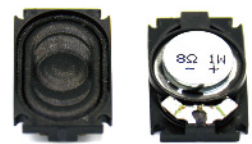
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	830Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----20kHz	
Dimension	25 x 14 mm	
Weight (MAX)	4.0	

HS2515NS0810 -H5.5



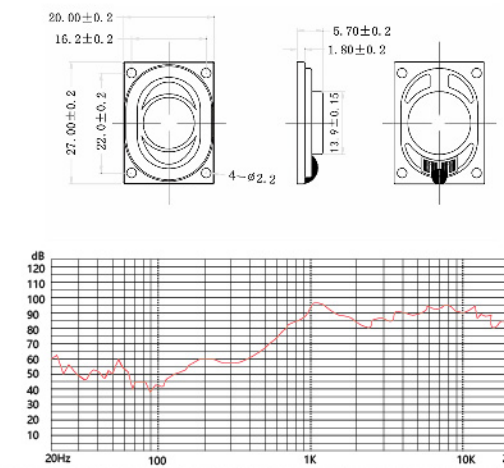
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	780Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 3.1 Vrms
Frequency Range	FO----20kHz	
Dimension	25 x 15 mm	
Weight (MAX)	4.0	

HS2516NS0810 -H6.6



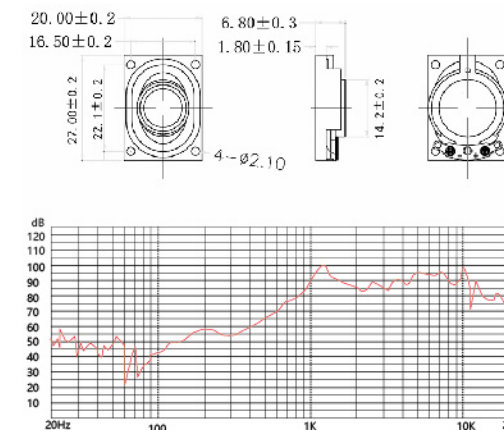
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	850Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----20kHz	
Dimension	25 x 16 mm	
Weight (MAX)	3.5	

HS2720NS0420 -H5.7



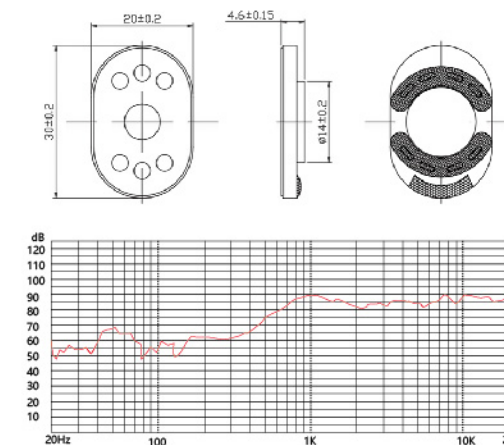
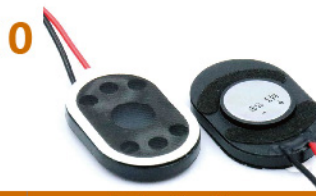
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	980Hz±20%	Without Baffle
Output S.P.L.	87±3dB	At 0.1m 0.1w 0.8,1.0,1.5,2.0KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	2.5 W	at 3.16 Vrms
Frequency Range	FO----20kHz	
Dimension	27 x 20 mm	
Weight (MAX)	5.0	

HS2720NS0820 -H6.8



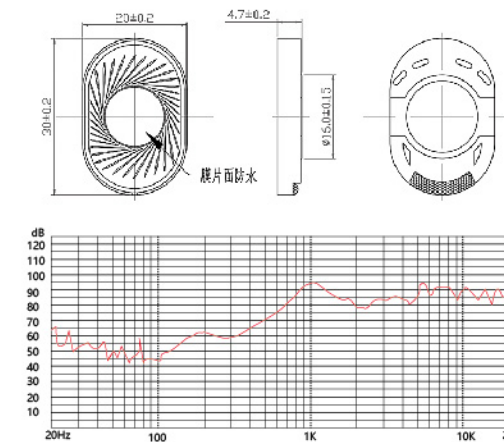
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	1200Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 1.0,1.2,1.5,3.0KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	27 x 20 mm	
Weight (MAX)	2.0	

HS3020MS0810 -H5.0



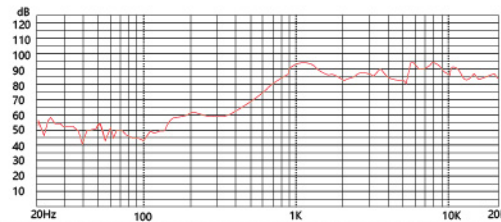
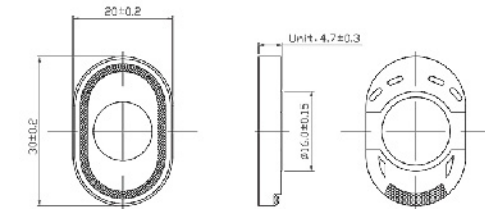
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	820Hz±20%	Without Baffle
Output S.P.L.	86±3dB	At 0.1m 0.1w 0.8,1.0,1.5,2.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	1.5 W	at 3.47 Vrms
Frequency Range	FO----20kHz	
Dimension	30 x 20 mm	
Weight (MAX)	4.0	

HS3020MS0820 -H4.7 PEI



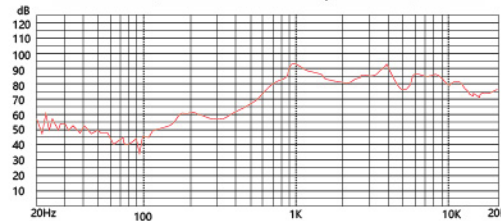
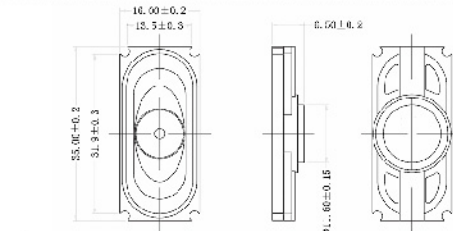
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	900Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.46 Vrms
Frequency Range	FO----20kHz	
Dimension	30 x 20 mm	
Weight (MAX)	4.0	

HS3020DS0820 -H4.7



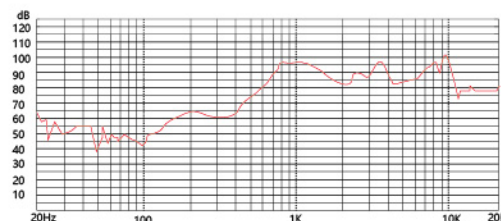
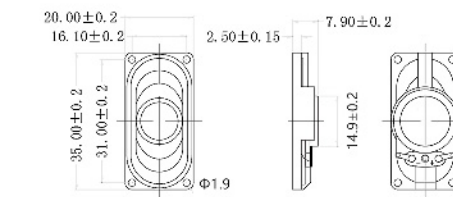
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	950Hz±20%	Without Baffle
Output S.P.L.	89±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.46 Vrms
Frequency Range	FO----20kHz	
Dimension	30 x 20 mm	
Weight (MAX)		

HS3516NS0810 -H6.5



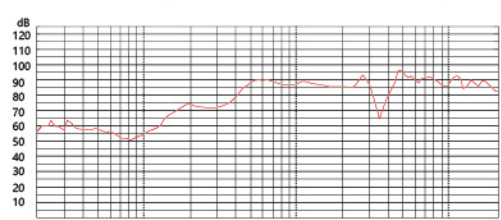
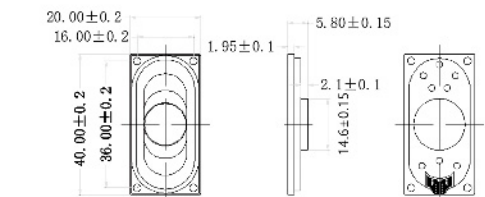
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	850Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	1.0 W	at 2.83 Vrms
Max Power	2.0 W	at 4.0 Vrms
Frequency Range	FO----20kHz	
Dimension	35 x 16 mm	
Weight (MAX)	4.0	

HS3520NS0820 -H7.9



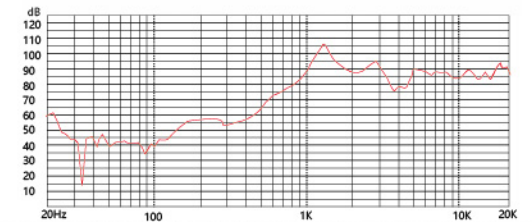
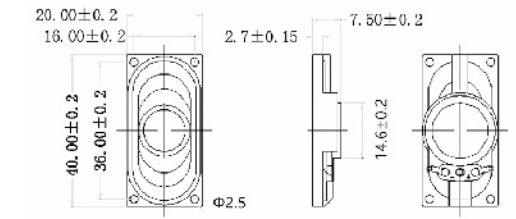
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	820Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	35 x 20 mm	
Weight (MAX)	6.0	

HS4020NS0820 -5.8



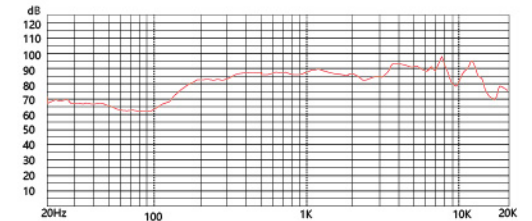
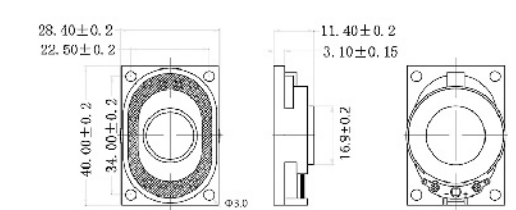
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	530Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	2.5 W	at 3.16 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 20 mm	
Weight (MAX)	8.0	

HS4020NS0820 -7.5



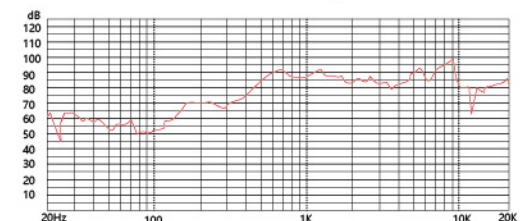
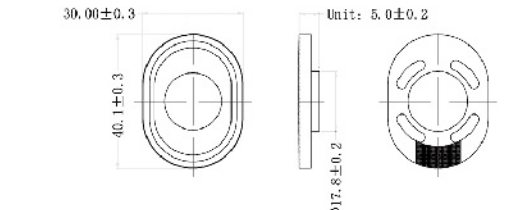
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	1200Hz±20%	Without Baffle
Output S.P.L.	91±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	2.5 W	at 3.16 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 20 mm	
Weight (MAX)	5.5	

HS4028MS0820 -H11.4



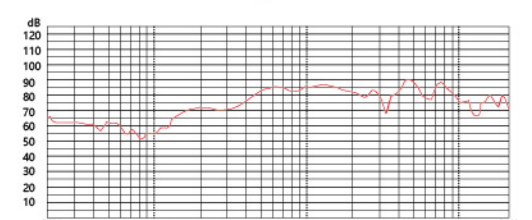
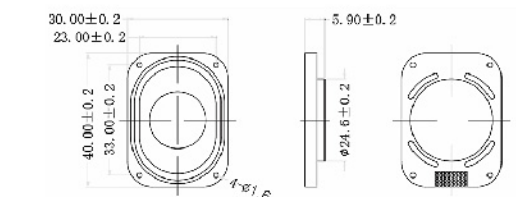
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	380Hz±20%	Without Baffle
Output S.P.L.	86±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.2KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 28 mm	
Weight (MAX)	13.0	

HS4030NS0420 -H5.0

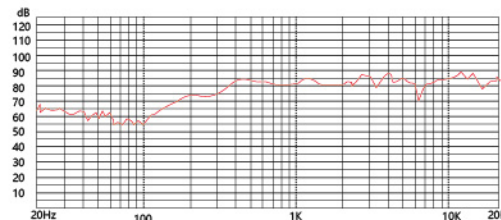
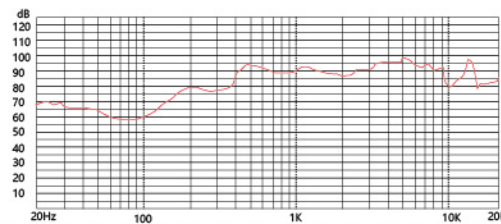


Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	620Hz±20%	Without Baffle
Output S.P.L.	86±3dB	86±3dBAt 0.1m 0.1w 0.6,0.8,1.0,1.2KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	3.0 W	at 3.47 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 30 mm	
Weight (MAX)	8.0	

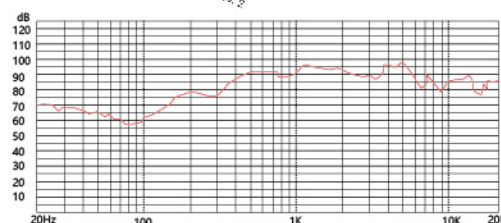
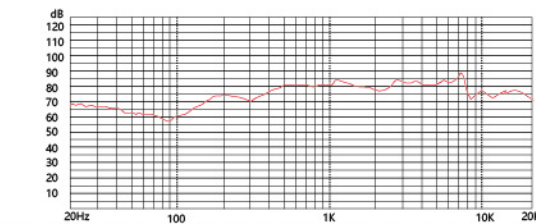
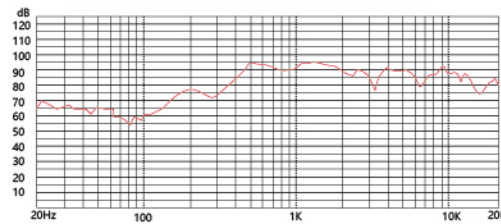
HS4030NS0420 -H5.9



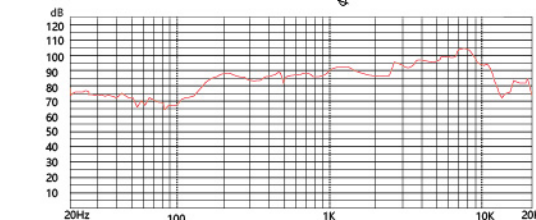
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	500Hz±20%	Without Baffle
Output S.P.L.	86±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	2.0 W	at 2.83 Vrms
Max Power	3.0 W	at 3.47 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 30 mm	
Weight (MAX)	8.0	

[illegible]

Technical drawing of the 1000mm x 500mm x 10mm stainless steel cabinet. The drawing shows three views: a front view, a side view, and a top view. The front view shows a rectangular cabinet with a central door handle and a lock. The side view shows the cabinet's profile with a depth of 10mm. The top view shows the cabinet's top surface with a central circular opening and four mounting holes. Dimensions are provided in millimeters with tolerances.

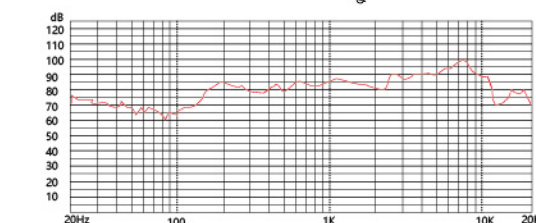
[illegible]

Technical drawing of a mechanical part showing three views: front, top, and side. The front view is a circle with a crosshair. The top view is a circle with a crosshair. The side view is a rectangle with dimensions: 15.3 ± 0.3, 6.1 ± 0.2, 3.3 ± 0.2, and 18.00 ± 0.2. The side view also shows a hole with diameter 28 ± 0.3.



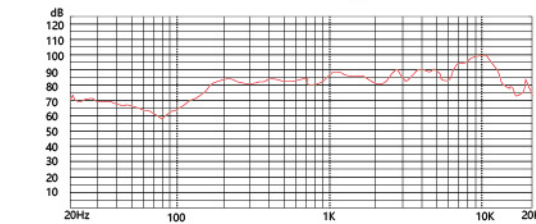
Technical drawing of a ring with the following dimensions:

- Outer diameter: 3.8 ± 0.2
- Inner diameter: 18.9 ± 0.3
- Outer diameter of the central hole: $\phi 32 \pm 0.3$
- Inner diameter of the central hole: $\phi 18.0 \pm 0.2$

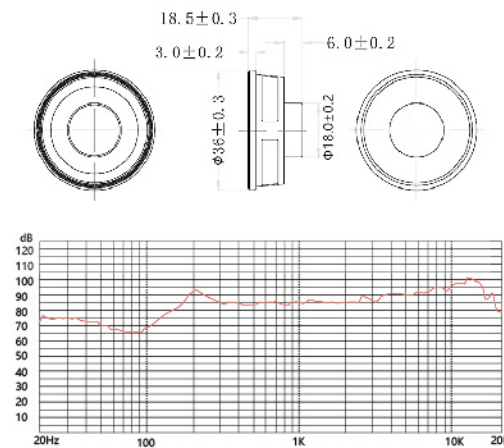


Technical drawing of a ring with the following dimensions:

- Outer diameter: 2.5 ± 0.3
- Inner diameter: 14.7 ± 0.5
- Inner hole diameter: $\phi 32.8 \pm 0.3$
- Inner hole diameter: $\phi 18.00 \pm 0.2$

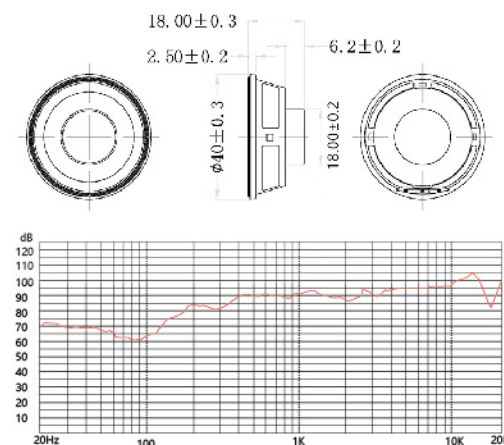


HS36DS0430 -H18.5



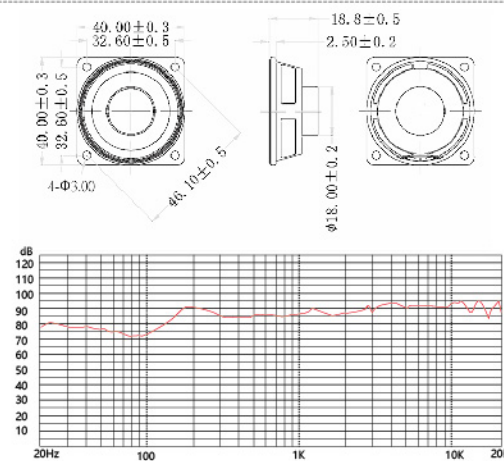
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	220Hz±20%	Without Baffle
Output S.P.L.	79±3dB	At 0.1m 1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	5.0 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ36 x H18.5 mm	
Weight (MAX)	15.0	

HS40DS0850 -H18.0



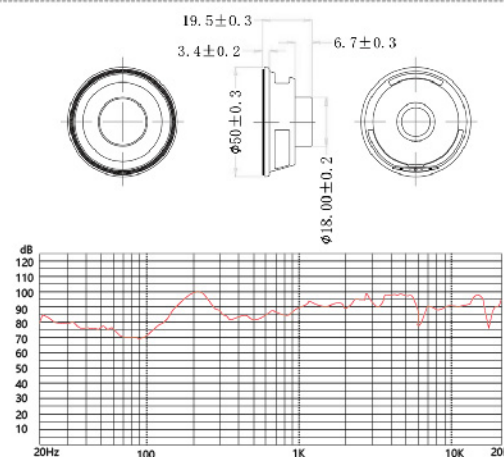
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	420Hz±20%	Without Baffle
Output S.P.L.	88±3dB	At 0.1m 0.1w 0.8,1.0,1.2,1.5KHz Average
Rated Power	5.0 W	at 6.32 Vrms
Max Power	6.0 W	at 6.93 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ40 x H18.0 mm	
Weight (MAX)	17.0	

HS40DS0850 -H18.8



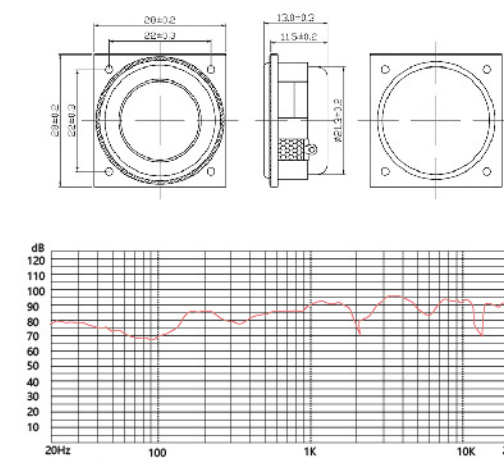
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	255Hz±20%	Without Baffle
Output S.P.L.	85±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	5.0 W	at 6.32 Vrms
Max Power	6.0 W	at 6.93 Vrms
Frequency Range	FO----20kHz	
Dimension	40 x 40 x H18.8 mm	
Weight (MAX)	17.0	

HS50DS0450 -H19.5



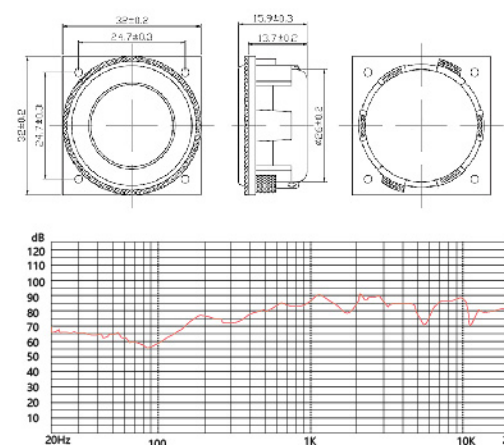
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	220Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.2KHz Average
Rated Power	5.0 W	at 4.47 Vrms
Max Power	8.0 W	at 5.66 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ50 x H19.5 mm	
Weight (MAX)	31.0	

HS2828DS0430 -H13.0



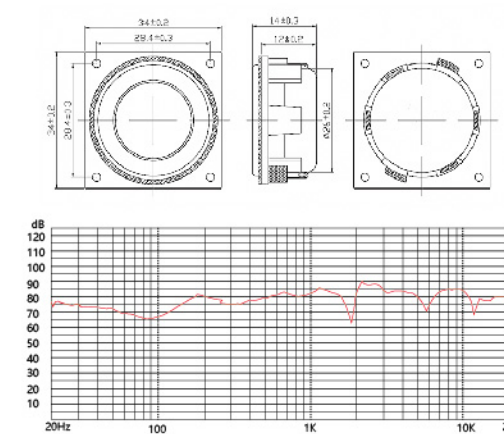
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	260Hz±20%	Without Baffle
Output S.P.L.	84±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	3.0 W	at 3.47 Vrms
Frequency Range	FO----20kHz	
Dimension	28 x 28 x H13.0 mm	
Weight (MAX)	19.0	

HS3232DS0830 -H15.9



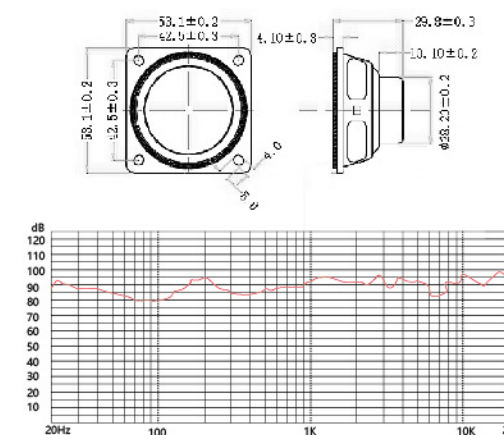
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	380Hz±20%	Without Baffle
Output S.P.L.	85±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	3.0 W	at 4.9 Vrms
Max Power	3.0 W	at 4.9 Vrms
Frequency Range	FO----20kHz	
Dimension	32 x 32 x H15.9 mm	
Weight (MAX)	31.0	

HS3434DS0820 -H14.0

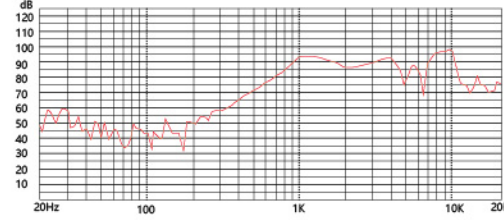
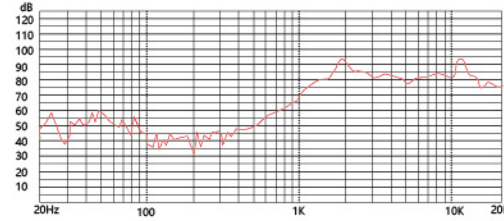
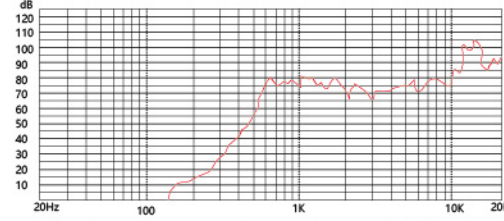
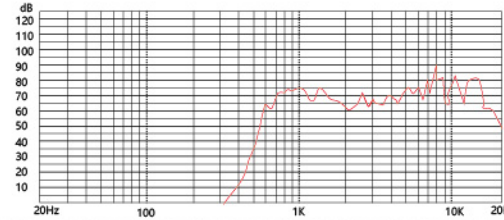


Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	260Hz±20%	Without Baffle
Output S.P.L.	85±3dB	At 0.1m 0.1w 0.6,1.0,1.5,2.0KHz Average
Rated Power	3.0 W	at 4.89 Vrms
Max Power	3.5 W	at 5.29 Vrms
Frequency Range	FO----20kHz	
Dimension	34 x 34 x H14.0 mm	
Weight (MAX)	31.0	

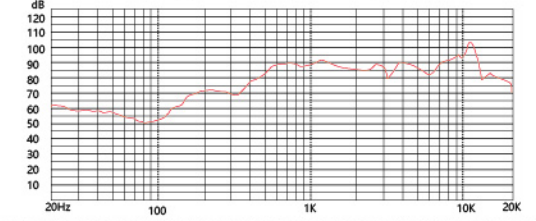
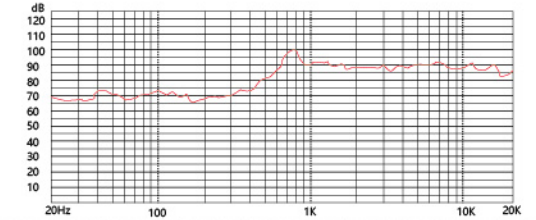
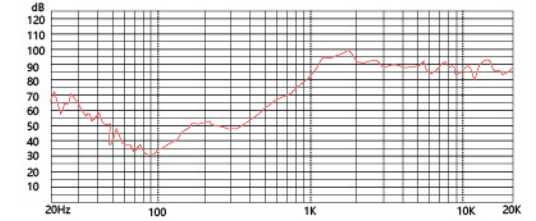
HS5353DS08120 -H29.8



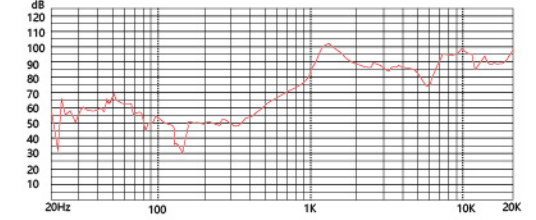
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	165Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	12.0 W	at 9.8 Vrms
Max Power	15.0 W	at 11.0 Vrms
Frequency Range	FO----20kHz	
Dimension	53 x 53 x H29.8 mm	
Weight (MAX)	63.0	



Technical drawing of a mechanical part showing a top view, a side view, and a cross-section. The top view is a circle with 16 holes arranged in a 4x4 grid. The side view shows a rectangular block with a central hole. The cross-section shows a rectangular block with a central hole. Dimensions are given in millimeters.

[illegible]

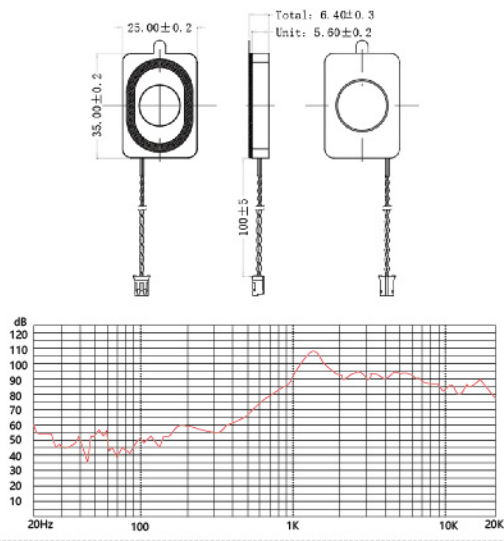
Testing Condition



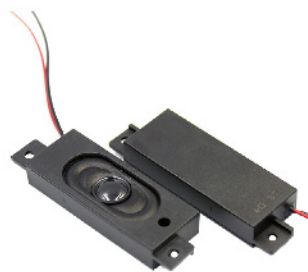
HS3525NB0430
-H6.4



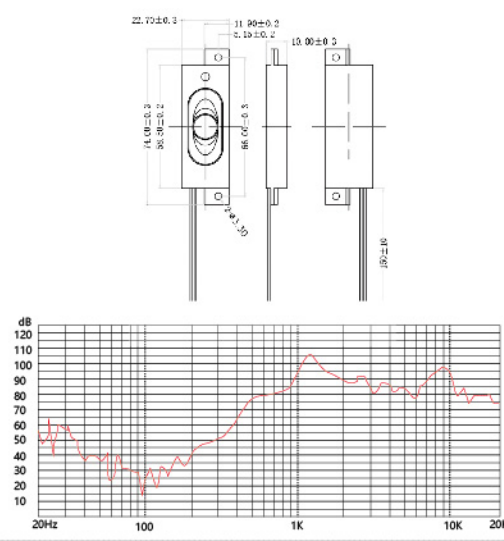
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	1200Hz±20%	Without Baffle
Output S.P.L.	92±3dB	At 0.1m 0.1w 1.0,1.5,2.0,3.0KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	3.0 W	at 3.47 Vrms
Frequency Range	FO----20kHz	
Dimension	35 x 25 x H6.4 mm	
Weight (MAX)	7.0	



HS7423NB0430
-H10.0



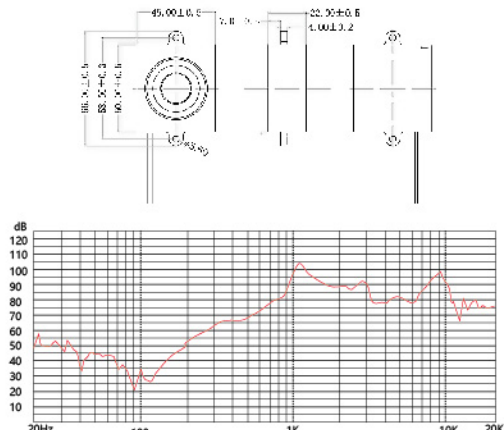
Item	Specification	Testing Condition
Rated Imp	4Ω ± 15%	
Resonance Freq	Fb: 500Hz±20% Fo: 1200Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	3.5 W	at 3.74 Vrms
Frequency Range	FO----20kHz	
Dimension	74 x 23 x H10.0 mm	
Weight (MAX)	16	



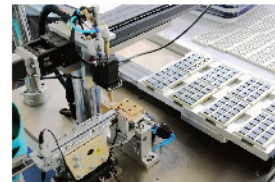
HS5045NB0850
-H22.0



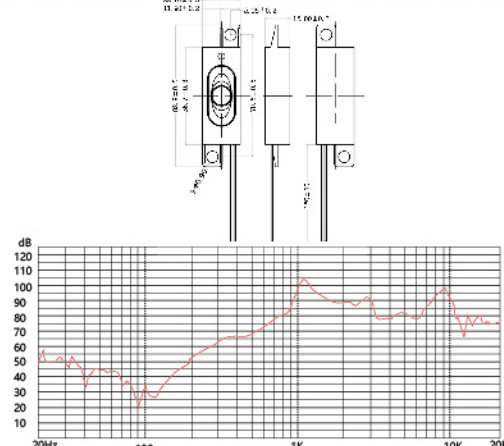
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	Fb: 125Hz±20%	Without Baffle
Output S.P.L.	91±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	5.0 W	at 6.32 Vrms
Max Power	6.0 W	at 6.93 Vrms
Frequency Range	FO----20kHz	
Dimension	Φ30 x H13.0 mm	
Weight (MAX)	33.0	



HS8323NB0430
-H15.0



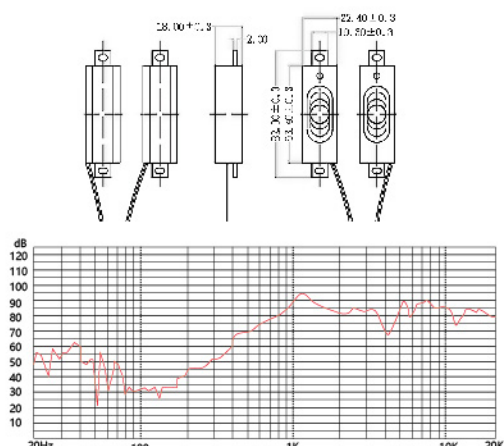
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	Fb: 300Hz±20% Fo: 1050Hz±20%	Without Baffle
Output S.P.L.	91±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	3.0 W	at 3.47 Vrms
Max Power	3.5 W	at 3.74 Vrms
Frequency Range	FO----20kHz	
Dimension	83 x 23 x H15.0 mm	
Weight (MAX)	13.0	



HS6423NB0820
-H18.0



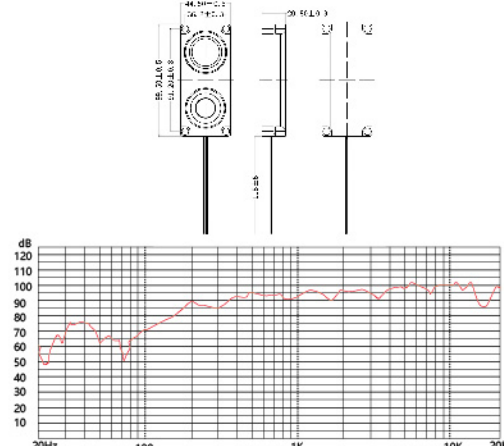
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	550Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.2KHz Average
Rated Power	2.0 W	at 4.0 Vrms
Max Power	2.5 W	at 4.47 Vrms
Frequency Range	FO----20kHz	
Dimension	63 x 23 x H18 mm	
Weight (MAX)	16.0	



HS10045NB0850
-H20.8



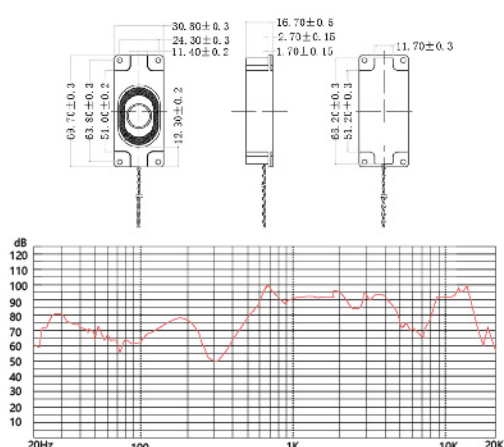
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	Fb: 95Hz±20% Fo: 400Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	5.0 W	at 6.32 Vrms
Max Power	6.0 W	at 6.92 Vrms
Frequency Range	FO----20kHz	
Dimension	100 x 45 x H20.8 mm	
Weight (MAX)	44.0	



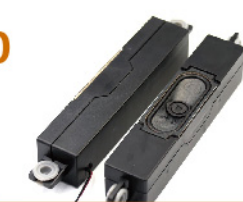
HS7030NB0430
-H16.7



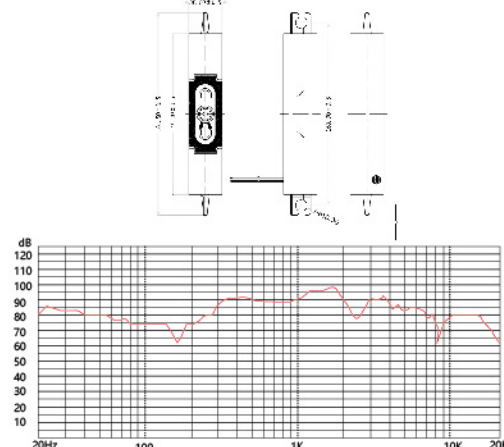
Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	650Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	3.0 W	at 3.46 Vrms
Max Power	3.5 W	at 3.74 Vrms
Frequency Range	FO----20kHz	
Dimension	70 x 30 x H16.7 mm	
Weight (MAX)	22.0	



HS14430NB0880
-H30



Item	Specification	Testing Condition
Rated Imp	8Ω ± 15%	
Resonance Freq	Fb: 95Hz±20% Fo: 350Hz±20%	Without Baffle
Output S.P.L.	90±3dB	At 0.1m 0.1w 0.6,0.8,1.0,1.5KHz Average
Rated Power	8.0 W	at 8.0 Vrms
Max Power	8.0 W	at 8.0 Vrms
Frequency Range	FO----20kHz	
Dimension	180 x 30 x H30.0 mm	
Weight (MAX)		





生产车间
Production workshop



设备仪器
Equipment and instruments