

Piezo Buzzer



Piezo Buzzer

Speedy Reference List

A

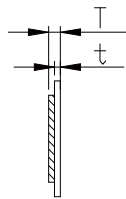
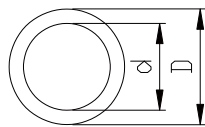
Piezo Buzzer

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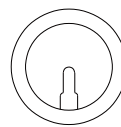
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Model Number	Resonant Frequency (KHz ± 0.5)	Resonant Resistance (Ωmax.)	Electrostatic Capacity (pF ± 30%)	Max. Input Voltage (Vp-p Max.)	Material	Dimension (mm)			
						D ± 0.1	d	t	T
KBIG1245F	4.5 ± 1.0	1,000	16,000	20	(b) Alloy	12	9 ± 0.3	0.05 ± 0.03	0.10 ± 0.05
KBIG1256	5.6 ± 1.0	1,000	15,000	20	(a) Brass	12	9 ± 0.5	0.05 ± 0.01	0.12 ± 0.03
KBIG1548	4.8	1,500	11,000	20	(a) Brass	15	9 ± 0.5	0.10 ± 0.05	0.22 ± 0.05
KBIG2020	2.0	300	90,000	20	(a) Alloy	20	15 ± 0.3	0.05 ± 0.03	0.13 ± 0.05
KBIG2036F	3.7	500	20,000	30	(b) Alloy	20	15 ± 0.3	0.10 ± 0.02	0.21 ± 0.05
KBIG2038F	3.8	350	17,000	30	(b) Brass	20	15 ± 0.5	0.15 ± 0.03	0.28 ± 0.10
KBIG2040	4.0 ± 0.3	250	26,000	20	(a) Brass	20	15 ± 0.2	0.10 ± 0.02	0.22 ± 0.05
KBIG2064F	6.4	400	10,000	30	(b) Brass	20	15 ± 0.3	0.20 ± 0.02	0.28 ± 0.10
KBIT2065	6.5 ± 1.0	300	12,000	20	(a) Brass	20	15 ± 0.3	0.20 ± 0.02	0.41 ± 0.07
KBIG2720	2.0	300	45,000	30	(a) Brass	27	20 ± 0.5	0.10 ± 0.03	0.23 ± 0.10
KBIG2720F	2.0	500	35,000	30	(b) Brass	27	20 ± 0.3	0.10 ± 0.05	0.23 ± 0.10
KBIG2728	2.8	300	30,000	30	(a) Brass	27	20 ± 0.5	0.15 ± 0.03	0.33 ± 0.10
KBIG2734	3.4	1,000	13,000	30	(a) Brass	27	14.6 ± 0.5	0.30 ± 0.05	0.53 ± 0.10
KBIG2737F	3.7	400	20,000	20	(b) Brass	27	20 ± 0.4	0.20 ± 0.02	0.41 ± 0.05
KBIG2745F	4.5	500	16,000	20	(b) Brass	27	20 ± 0.4	0.25 ± 0.02	0.51 ± 0.07
KBIG2746	4.6	250	16,000	20	(a) Brass	27	20 ± 0.3	0.25 ± 0.02	0.51 ± 0.07
KBIG3113	1.3	500	43,000	30	(a) Alloy	31	20 ± 0.5	0.10 ± 0.03	0.23 ± 0.10
KBIG3526	2.6	300	30,000	30	(a) Brass	35	25 ± 0.5	0.25 ± 0.05	0.53 ± 0.10
KBIG3529F	2.9	500	25,000	30	(b) Brass	35	25 ± 0.5	0.30 ± 0.05	0.58 ± 0.10
KBIG4110	0.8 ± 0.3	1,000	70,000	20	(a) Alloy	41	25 ± 0.4	0.10 ± 0.02	0.21 ± 0.05
KBIG4406	0.6 ± 0.3	1,000	70,000	20	(a) Brass	44	25 ± 0.4	0.10 ± 0.03	0.23 ± 0.10
KBIG5010	1.0	800	60,000	30	(a) Brass	50	30 ± 0.5	0.20 ± 0.02	0.40 ± 0.05

(a) Standard type

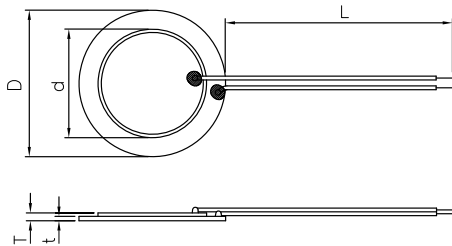


(b) Feedback type

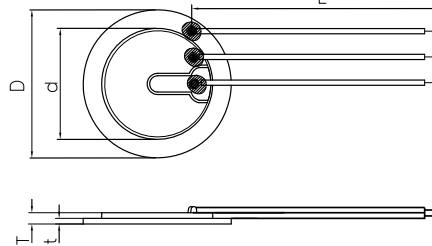


Tol: ± 0.5 Unit: mm

(a) Standard type



(b) Feedback type



Note: Wire Soldering Service Available

Tol: ± 0.5 Unit: mm

SMD Type

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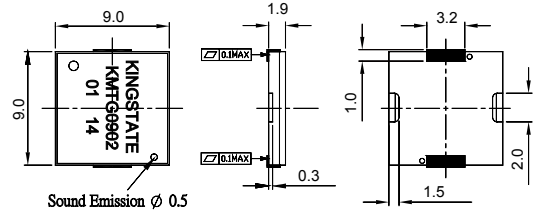
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KMTG0902

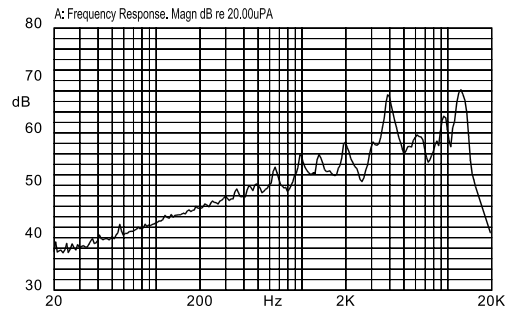


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 5@3Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 65@10cm/3Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	12,000 ± 30%@100Hz/1V
Operating Temperature (°C)	-30 ~ +70
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	L9.0xW9.0xH1.9
Material	LCP (Black)

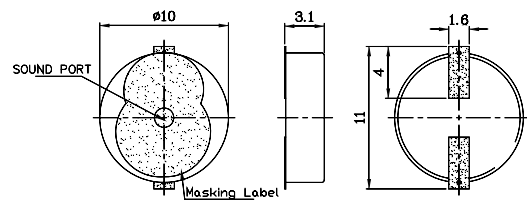
SMD Type

PIEZO TRANSDUCER

KMTG1003-F

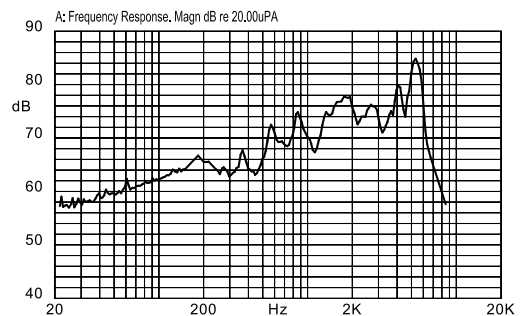


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 5@5Vp-p, Square Wave, 5.2KHz
Sound Pressure Level (dB)	Min. 75@10cm/5Vp-p, Square Wave, 5.2KHz
Electrostatic Capacity (pF)	11,000 ± 30%@100Hz/1V
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Dimension (mm)	Φ10.0xH3.1
Material	LCP (Black)

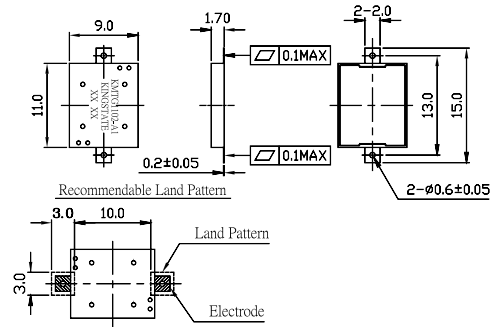
SMD Type

PIEZO TRANSDUCER

KMTG1102-A1

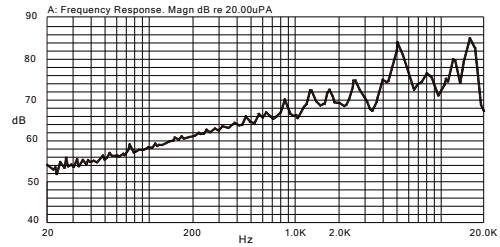


Dimension



Tol: ± 0.5 Unit: mm

Characteristic

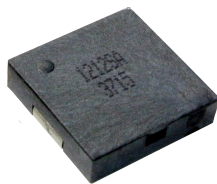


Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 4.5@5Vp-p, Square Wave, 4.1KHz
Sound Pressure Level (dB)	Min. 73@10cm/5Vp-p, Square Wave, 4.1KHz
Electrostatic Capacity (pF)	12,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-40 ~ +80
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	L11.0xW9.0xH1.7
Material	LCP (White)

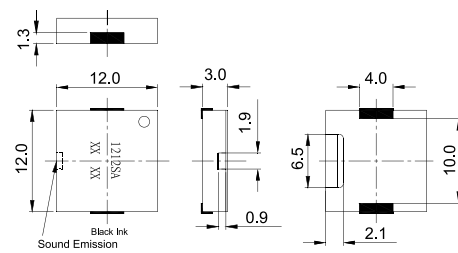
SMD Type

PIEZO TRANSDUCER

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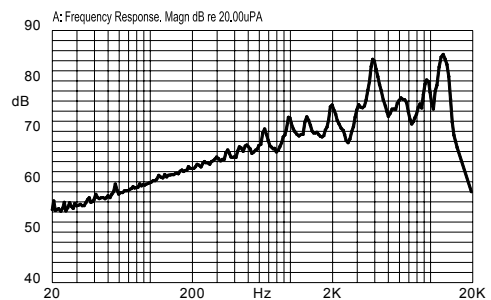


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 5.0@5Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 81@10cm/5Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	16,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-40 ~ +120
Storage Temperature (°C)	-40 ~ +120
Dimension (mm)	L12.0xW12.0xH3.0
Material	LCP (Black)

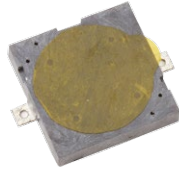
SMD Type

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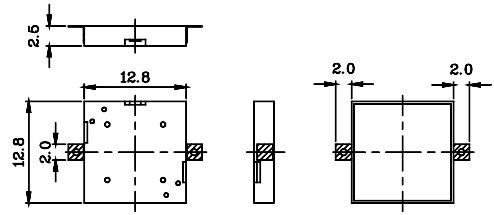
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KMTG1303-1

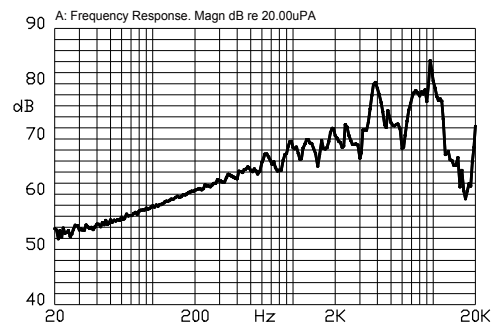


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 5@5Vp-p, Square Wave, 4.1KHz
Sound Pressure Level (dB)	Min. 70@10cm/5Vp-p, Square Wave, 4.1KHz
Electrostatic Capacity (pF)	16,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +70
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	L12.8xW12.8xH2.5
Material	LCP (Black) Washable

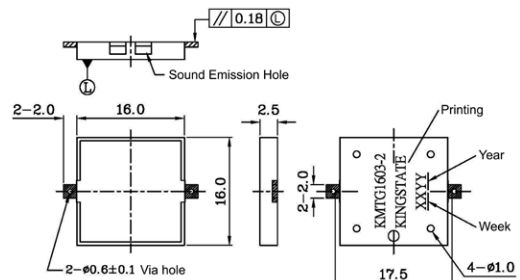
SMD Type

PIEZO TRANSDUCER

KMTG1603-2

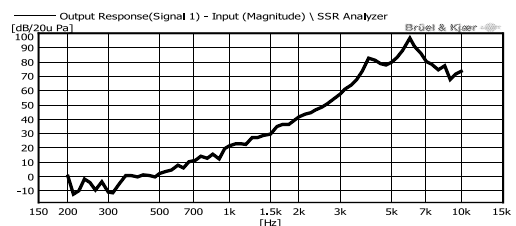


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 25
Current Consumption (mA)	Max. 3@5Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 78@10cm/3Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	16,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-40 ~ +70
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	L16.0xW16.0xH2.5
Material	LCP (White)

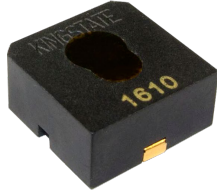
SMD Type

PIEZO TRANSDUCER

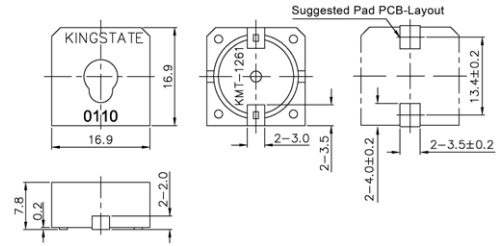
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Piezo Buzzer

KMTG1261



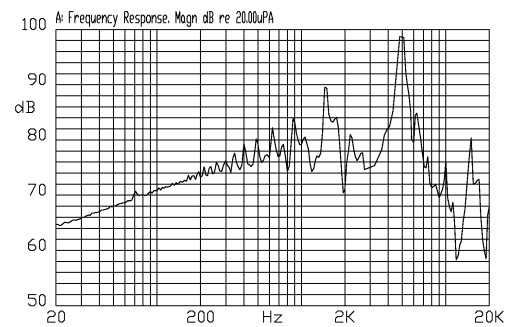
Dimension



Tol: ± 0.5 Unit: mm

Rated Voltage (Vp-p)	Max 20
Current Consumption (mA)	Max. 11@10Vp-p, Square Wave, 5.0KHz
Sound Pressure Level (dB)	Min 90@10cm/10Vp-p, Square Wave, 5.0KHz
Electrostatic Capacity (pF)	19,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +70
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	L16.9xW16.9xH7.8
Material	PPS UL-94 V-0 (Black)

Characteristic



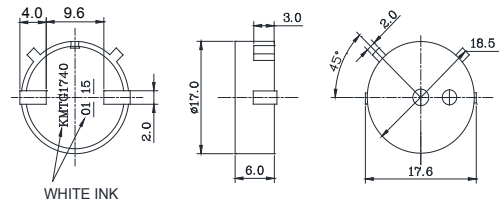
SMD Type

PIEZO TRANSDUCER

KMTG1740



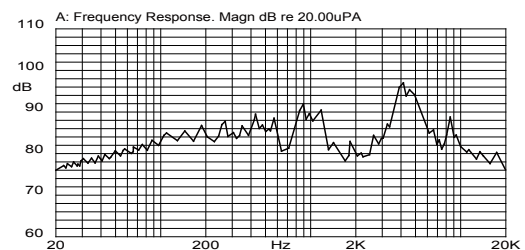
Dimension



Tol: ± 0.5 Unit: mm

Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 12@12Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 90@10cm/12Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	15,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-40 ~ +105
Storage Temperature (°C)	-40 ~ +120
Dimension (mm)	Φ17.0xH6.0
Material	PPS (Black)

Characteristic



SMD Type-Self Drive Type

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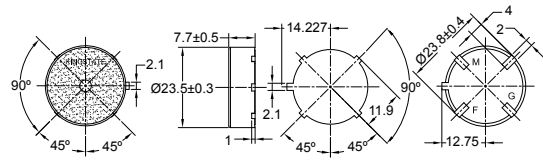
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KMTG222

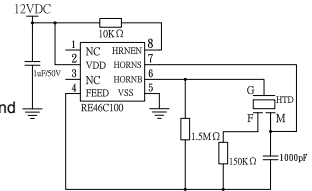


Rated Frequency (Hz)	3,200 ± 500
Operating Voltage Range (VDC)	5.5 ~ 16
Current Consumption (mA)	Max. 20@9VDC
Sound Pressure Level (dB)	Min. 105(Typical 108)@10cm/9VDC Min. 75(Typical 78)@300cm/9VDC
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	Φ23.5xH7.7
Tone	Continuous
Material	PPS (Black)

Dimension

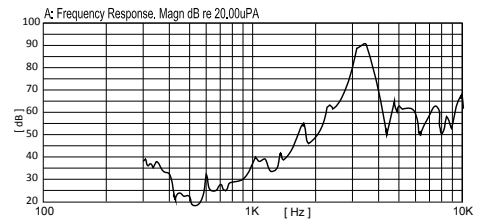


The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Characteristic



SMD Type-Self Drive Type

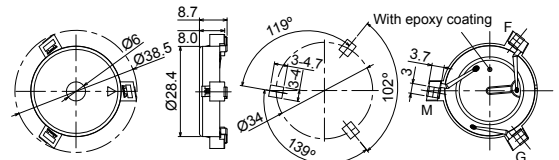
PIEZO TRANSDUCER

KMTG132

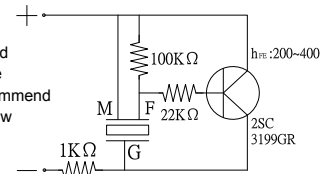


Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 9@12VDC
Sound Pressure Level (dB)	Min. 88@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ28.4xH8.0
Tone	Continuous
Material	LCP (Black)

Dimension

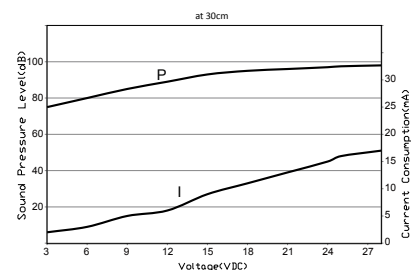


The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Characteristic



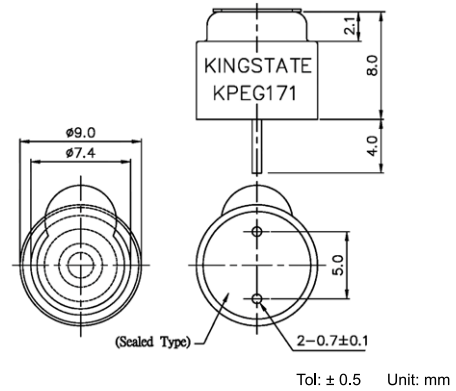
Pin Type

PIEZO TRANSDUCER

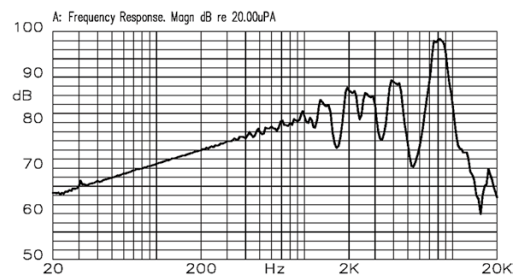
KPEG171



Dimension



Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 4@10Vp-p, Square Wave, 2.8KHz
Sound Pressure Level (dB)	Min. 75@10cm/10vp-p, Square Wave, 2.8KHz
Electrostatic Capacity (pF)	5,600 ± 30%@120Hz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ9.0xH8.0
Material	PBT+15% GLASS (Black)

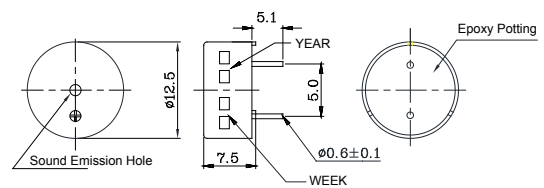
Pin Type

PIEZO TRANSDUCER

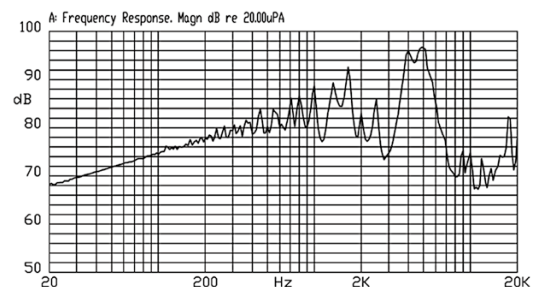
KPEG158-KS



Dimension



Characteristic



Operating Voltage Range (Vp-p)	1~20
Current Consumption (mA)	Max. 7@9Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min 85@10cm/9Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	13,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ12.5xH7.5
Material	PC (Black)

Pin Type

PIEZO TRANSDUCER

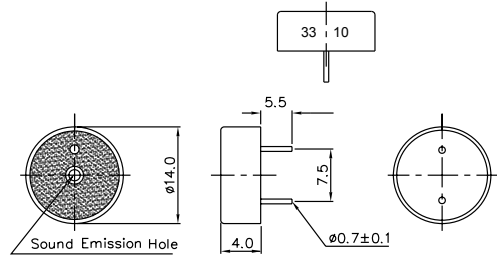
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KPEG159

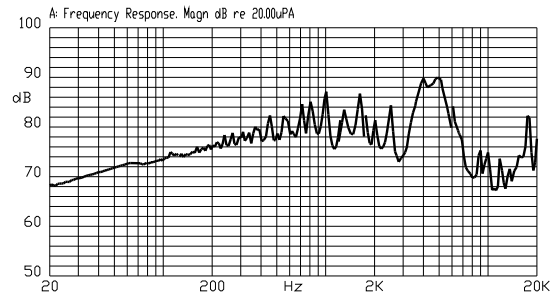


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Operating Volt. Range (Vp-p)	1 ~ 30
Current Consumption (mA)	Max. 10@6Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 80@10cm/6Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	14,000 ± 30%@100Hz/1V
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ14.0xH4.0
Material	PBT (Black)

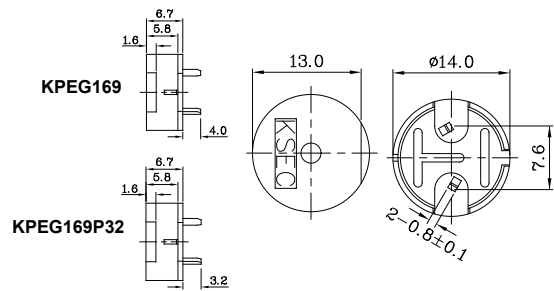
Pin Type

PIEZO TRANSDUCER

KPEG169 KPEG169P32

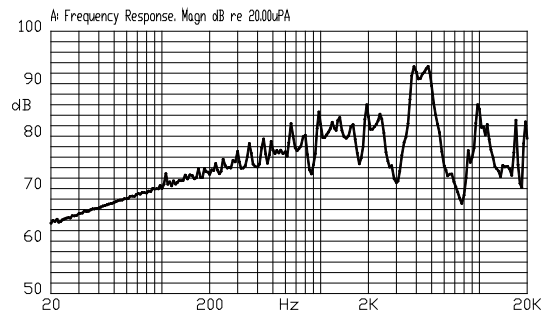


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 7@10Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 80@10cm/10vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	8,500 ± 30%@120Hz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +90
Dimension (mm)	Φ14.0xH6.7
Material	PBT+10% GLASS (Black)

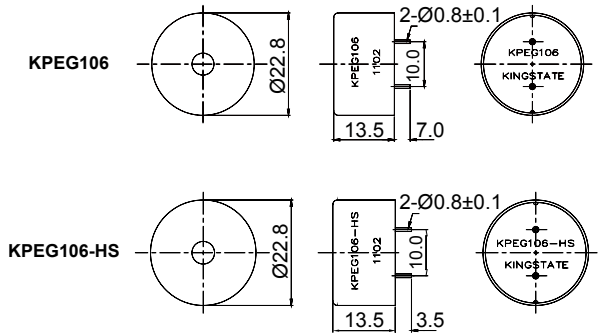
Pin Type

PIEZO TRANSDUCER

**KPEG106
KPEG106-HS**

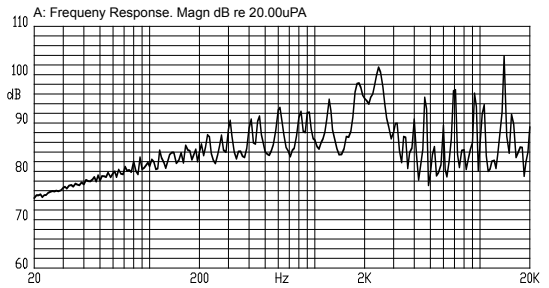


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG106	KPEG106-HS
Rated Voltage (Vp-p)	Max. 30	
Current Consumption (mA)	Max.18@10Vp-p, Square Wave, 2.4KHz	
Sound Pressure Level (dB)	Min. 88@10cm/10Vp-p, Square Wave, 2.4KHz	
Electrostatic Capacity (pF)	90,000 ± 30%@1KHz/1V	
Operating Temperature (°C)	-30 ~ +85	-30 ~ +105
Storage Temperature (°C)	-40 ~ +95	-40 ~ +105
Dimension (mm)	Φ22.8xH13.5	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	PC (Black)

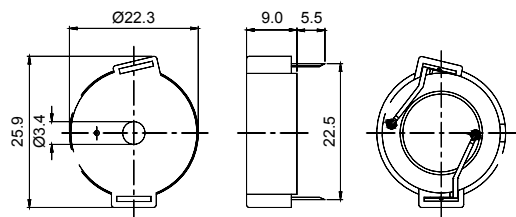
Pin Type

PIEZO TRANSDUCER

KPEG104-C

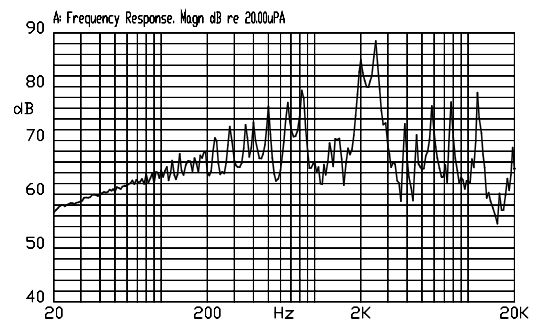


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 15
Current Consumption (mA)	Max. 5@3Vp-p, Square Wave, 2.2KHz
Sound Pressure Level (dB)	Min. 75@10cm/3Vp-p, Square Wave, 2.2KHz
Electrostatic Capacity (pF)	25,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ22.3xH9.0
Material	ABS

Pin Type

PIEZO TRANSDUCER

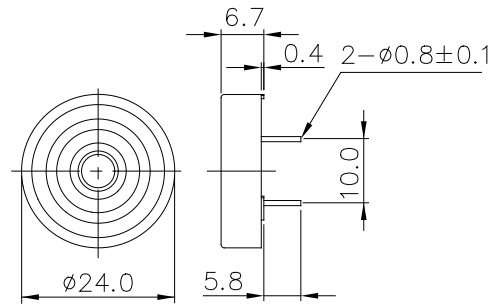
A

Piezo Buzzer

KPEG122

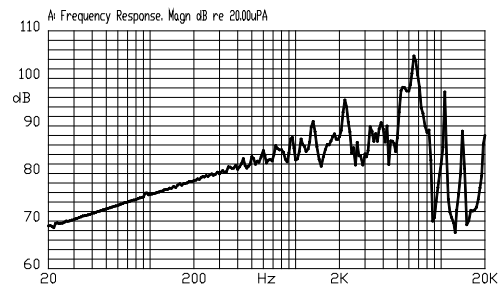


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Operating Volt. Range (Vp-p)	Max. 30
Current Consumption (mA)	Max. 8@10Vp-p, Square Wave, 6.0KHz
Sound Pressure Level (dB)	Min. 90@10cm/10Vp-p, Square Wave, 6.0KHz
Electrostatic Capacity (pF)	12,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ24.0xH6.7
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

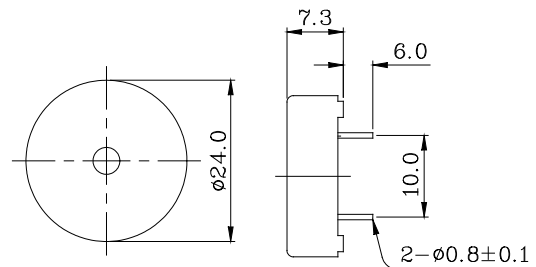
Pin Type

PIEZO TRANSDUCER

KPEG112

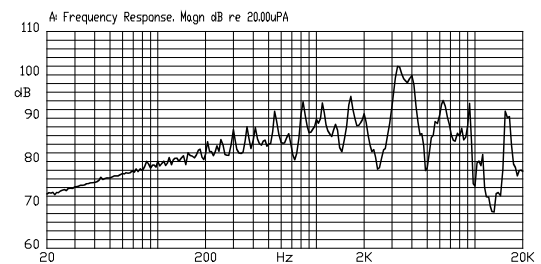


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 11@10Vp-p, Square Wave, 4.0KHz
Sound Pressure Level (dB)	Min. 92@10cm/10Vp-p, Square Wave, 4.0KHz
Electrostatic Capacity (pF)	25,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ24.0xH7.3
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

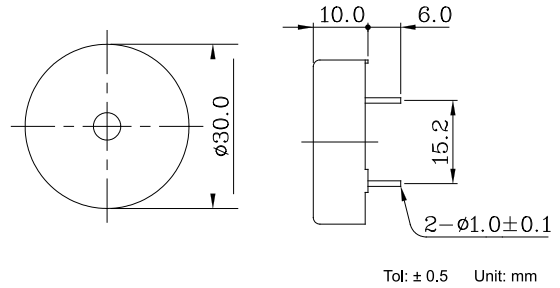
Pin Type

PIEZO TRANSDUCER

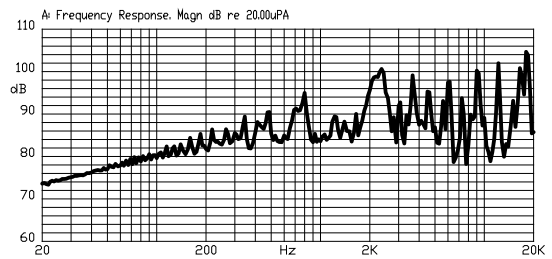
KPEG116



Dimension



Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 8@10Vp-p, Square Wave, 2.0KHz
Sound Pressure Level (dB)	Min. 90@10cm/10Vp-p, Square Wave, 2.0KHz
Electrostatic Capacity (pF)	28,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ30.0x H10.0
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

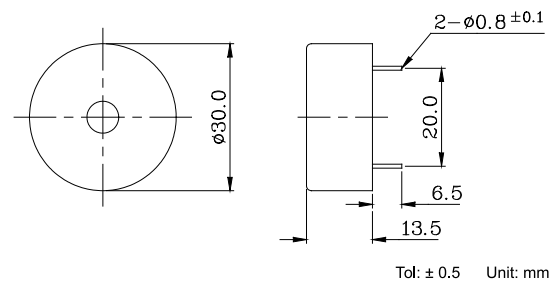
Pin Type

PIEZO TRANSDUCER

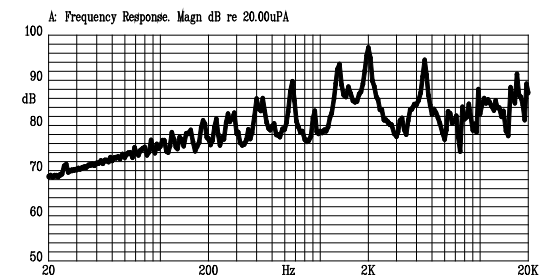
KPEG114



Dimension



Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 11@10Vp-p, Square Wave, 2.0KHz
Sound Pressure Level (dB)	Min. 93@10cm/10Vp-p, Square Wave, 2.0KHz
Electrostatic Capacity (pF)	45,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ30.0xH13.5
Material	ABS UL-94 1/16" HB HIGH HEAT (BLACK)

Pin Type

PIEZO TRANSDUCER

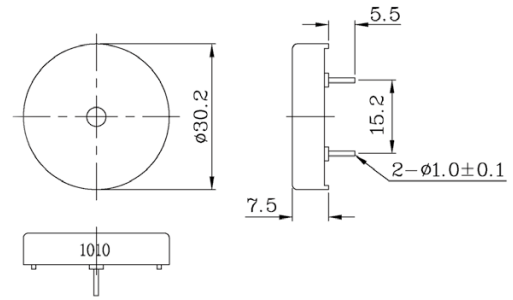
A

Piezo Buzzer

KPEG130

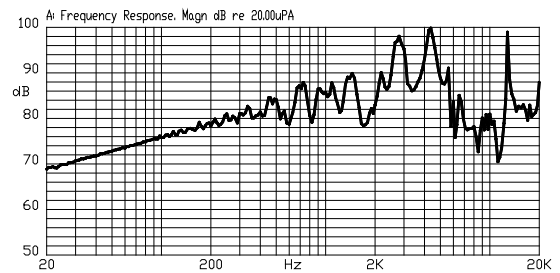


Dimension



Tol: ± 0.5 Unit: mm

Characteristic

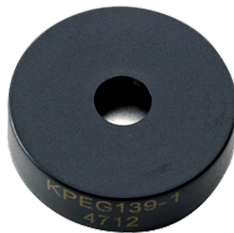


Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 10@10Vp-p, Square Wave, 3.0KHz
Sound Pressure Level (dB)	Min. 90@10cm/10Vp-p, Square Wave, 3.0KHz
Electrostatic Capacity (pF)	18,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ30.2xH7.5
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

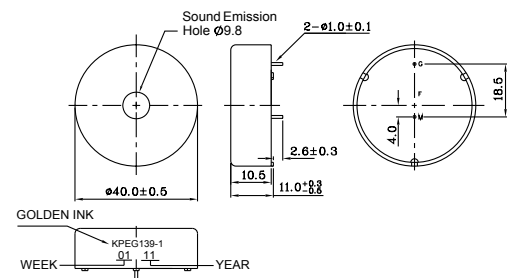
Pin Type

PIEZO TRANSDUCER

KPEG139-1

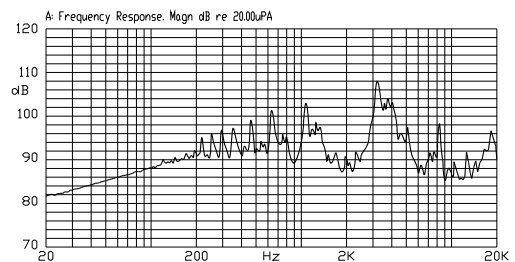


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 60
Current Consumption (mA)	Max. 40@25Vp-p, Square Wave, 3.25KHz
Sound Pressure Level (dB)	Min. 85@300cm/25Vp-p, Square Wave, 3.25KHz
Sound Pressure Level (dB)	Min. 100@10cm/12Vp-p, Square Wave, 3.25KHz
Electrostatic Capacity (pF)	30,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	Φ40.0xH11.0
Material	PBT (Black)

Pin Type

PIEZO TRANSDUCER

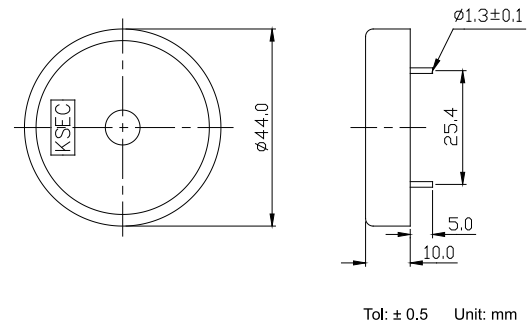
A

Piezo Buzzer

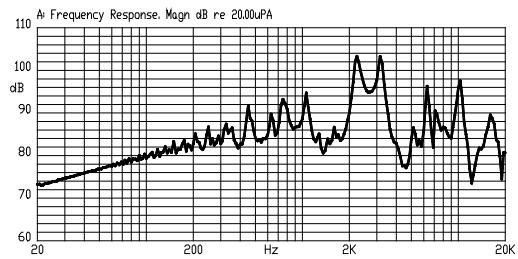
KPEG146



Dimension



Characteristic



Rated Voltage (Vp-p)	Max. 50
Current Consumption (mA)	Max. 8@10Vp-p, Square Wave, 750Hz
Sound Pressure Level (dB)	Min. 85@10cm/10Vp-p, Square Wave, 750Hz
Electrostatic Capacity (pF)	70,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ44.0xH10.0
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

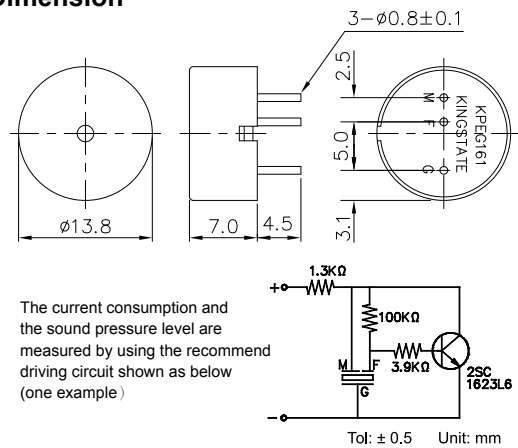
Pin Type-Self Drive Type

PIEZO TRANSDUCER

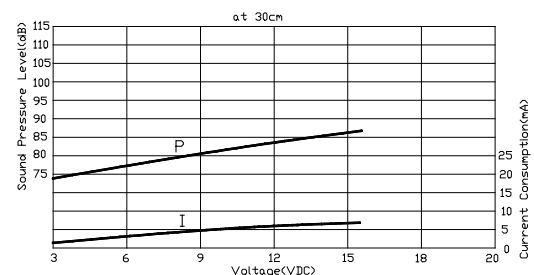
KPEG161



Dimension



Characteristic



Rated Frequency (Hz)	4,100 ± 500
Rated Voltage (VDC)	12
Operating Volt. Range (VDC)	3~16
Current Consumption (mA)	Max. 7@12VDC
Sound Pressure Level (dB)	Min. 70@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ13.8xH7.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

Pin Type-Self Drive Type

PIEZO TRANSDUCER

A

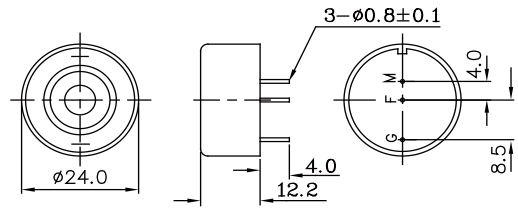
Piezo Buzzer

KPEG123

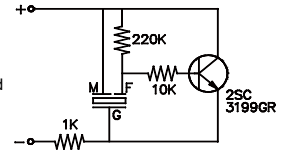


Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 8@12VDC
Sound Pressure Level (dB)	Min. 82@30cm/12VDC
Electrostatic Capacity (pF)	18,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-20 ~ +85
Storage Temperature (°C)	-30 ~ +95
Dimension (mm)	Φ24.0xH12.2
Tone	Continuous
Material	PBT+15% GLASS (Black)

Dimension

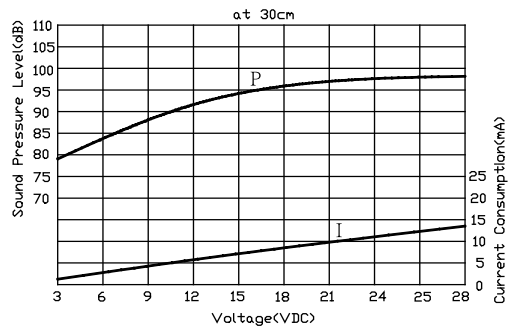


The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Characteristic



Pin Type-Self Drive Type

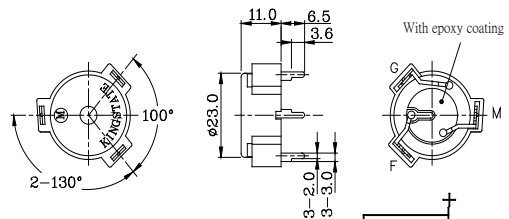
PIEZO TRANSDUCER

KPEG134

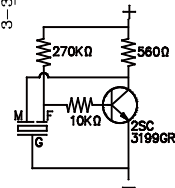


Rated Frequency (Hz)	3,600 ± 500
Rated Voltage (VDC)	12
Operating Volt. Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 12@12VDC
Sound Pressure Level (dB)	Min. 85@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ23.0xH11.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

Dimension

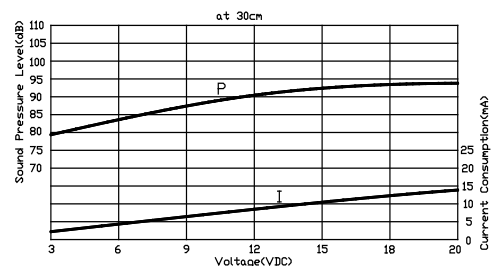


The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Characteristic



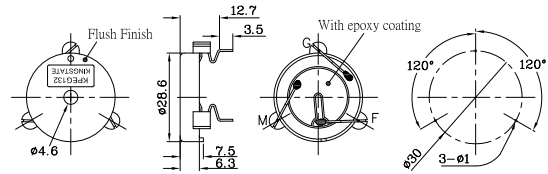
Pin Type-Self Drive Type

PIEZO TRANSDUCER

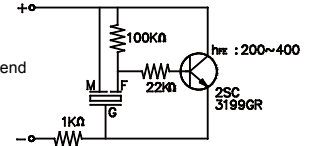
KPEG132



Dimension



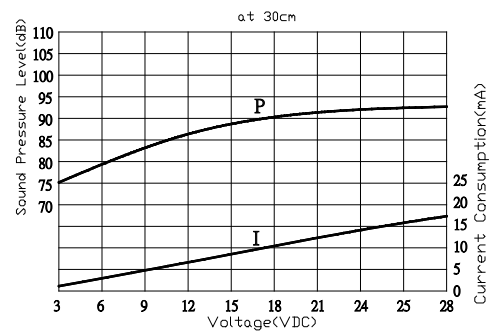
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 8@12VDC
Sound Pressure Level (dB)	Min. 83@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ28.6xH7.5
Tone	Continuous
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

Characteristic



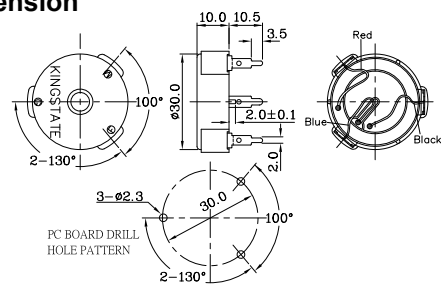
Pin Type-Self Drive Type

PIEZO TRANSDUCER

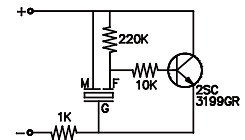
KPEG133M



Dimension



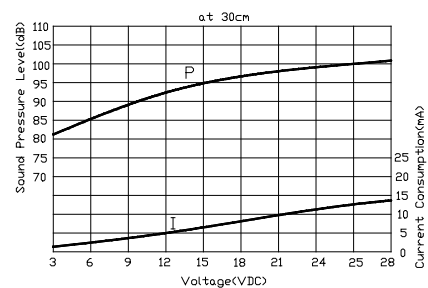
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	3,600 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 7@12VDC
Sound Pressure Level (dB)	Min. 82@30cm/12VDC
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ30.0xH10.0
Tone	Continuous
Material	ABS UL-94 1/16"HB

Characteristic



Pin Type-Self Drive Type

PIEZO TRANSDUCER

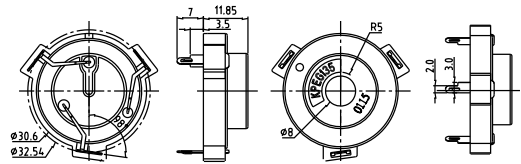
A

Piezo Buzzer

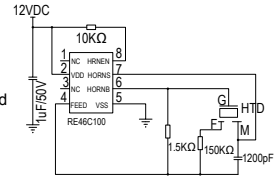
KPEG135



Dimension



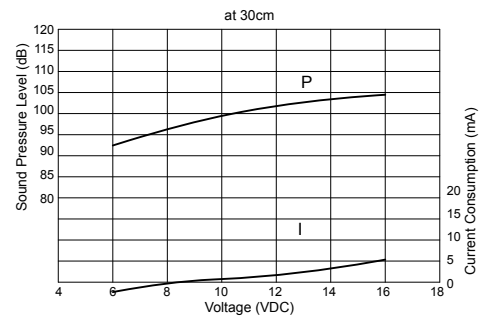
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	6 ~ 16
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 104(Typical 108)@30cm/12VDC Min. 85(Typical 92)@300cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ30.6xH11.85
Tone	Continuous
Material	ABS PA-777D (Black)

Characteristic



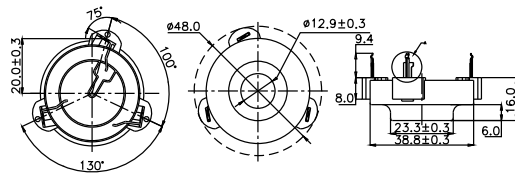
Pin Type-Self Drive Type

PIEZO TRANSDUCER

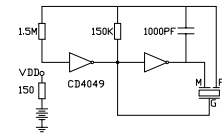
KPEG191



Dimension



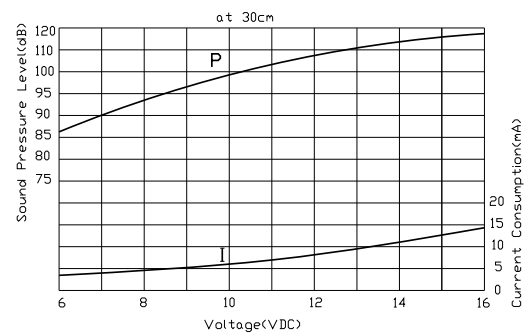
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	3,200 ± 500
Operating Voltage Range (VDC)	6 ~ 16
Current Consumption (mA)	Max. 20@9VDC
Sound Pressure Level (dB)	Min. 95@30cm/9VDC
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ38.8xH16.0
Tone	Continuous
Material	ABS (Black)

Characteristic



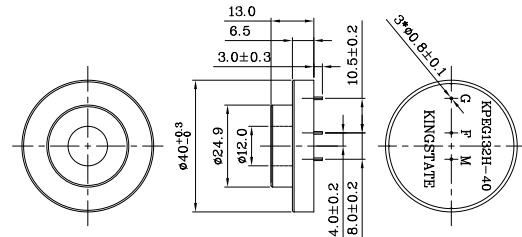
Pin Type-Self Drive Type

PIEZO TRANSDUCER

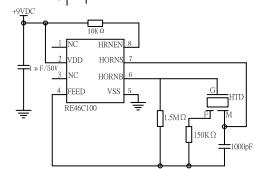
KPEG132H-40



Dimension



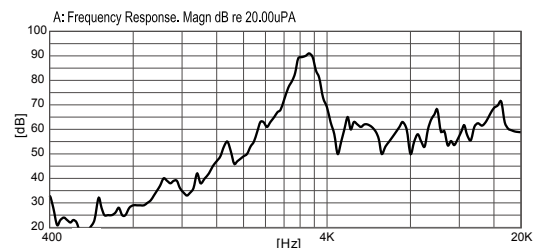
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	5.5 ~ 16
Current Consumption (mA)	Max. 30@9VDC, driven by RE46C100
Sound Pressure Level (dB)	Min. 100(Typical 108)@30cm/9VDC Min. 85(Typical 92)@300cm/12VDC
Operating Temperature (°C)	-25 ~ +85
Storage Temperature (°C)	-25 ~ +85
Dimension (mm)	Φ40.0xH13.0
Tone	Continuous
Material	PBT+15%Glass (Black)

Characteristic



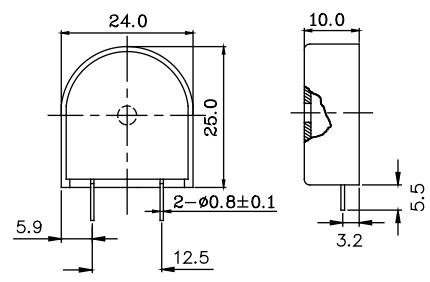
Vertical Mounting Type

PIEZO TRANSDUCER

KPEG502



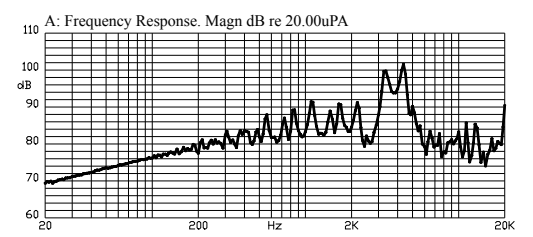
Dimension



Tol: ± 0.5 Unit: mm

Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 10@10Vp-p, Square Wave, 3.3KHz
Sound Pressure Level (dB)	Min. 93@10cm/10Vp-p, Square Wave, 3.3KHz
Electrostatic Capacity (pF)	17,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +115
Storage Temperature (°C)	-40 ~ +125
Dimension (mm)	L24.0xW25.0xH10.0
Material	PC 10%GLASS (Black)

Characteristic



Vertical Mounting Type Self Drive Type

A

Piezo Buzzer

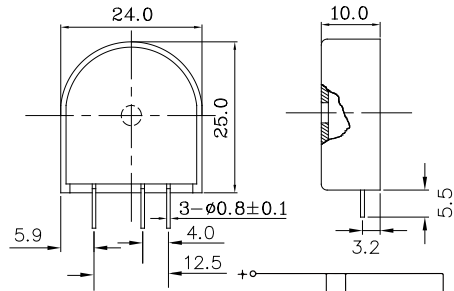
KPEG503



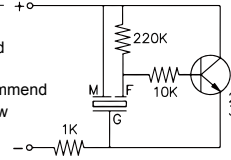
Rated Frequency (Hz)	3,200 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 7@30cm/12VDC
Sound Pressure Level (dB)	Min. 72@30cm/12VDC
Operating Temperature (°C)	-30 ~ +115
Storage Temperature (°C)	-40 ~ +125
Dimension (mm)	L24.0xW25.0xH10.0
Tone	Continuous
Material	PC 10%GLASS (Black)

PIEZO TRANSDUCER

Dimension

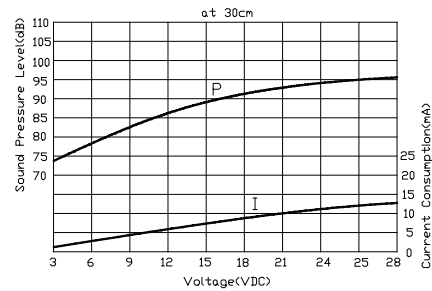


The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Characteristic



Wire Type

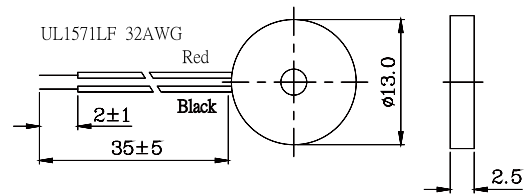
KPEG163



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 10@10Vp-p, Square Wave, 4.8KHz
Sound Pressure Level (dB)	Min. 80@10cm/10Vp-p, Square Wave, 4.8KHz
Electrostatic Capacity (pF)	14,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ13.0xH2.5
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

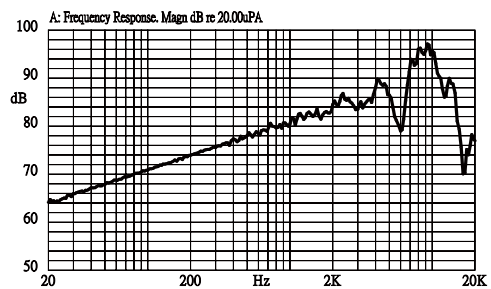
PIEZO TRANSDUCER

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



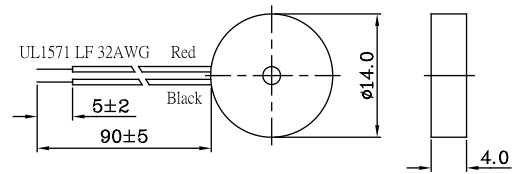
Wire Type

PIEZO TRANSDUCER

KPEG165

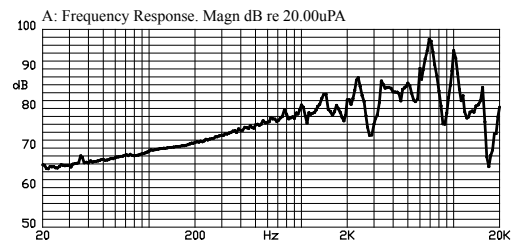


Dimension



Tol: ± 0.5 Unit: mm

Characteristic

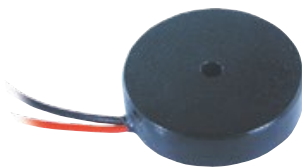


Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 11@10Vp-p, Square Wave, 4.8KHz
Sound Pressure Level (dB)	Min. 85@10cm/10Vp-p, Square Wave, 4.8KHz
Electrostatic Capacity (pF)	15,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ14.0xH4.0
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

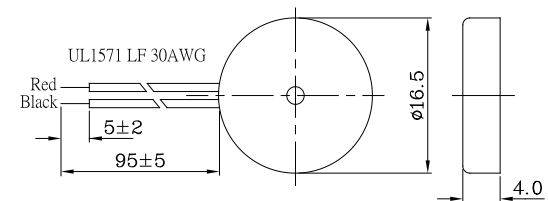
Wire Type

PIEZO TRANSDUCER

KPEG150

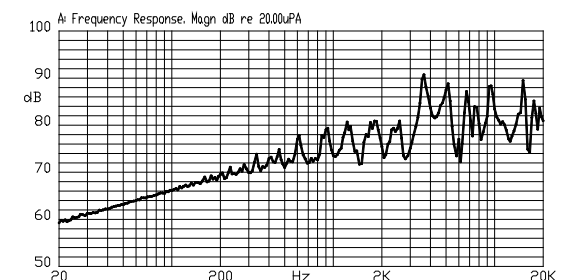


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 9@10Vp-p, Square Wave, 5.0KHz
Sound Pressure Level (dB)	Min. 80@10cm/10Vp-p, Square Wave, 5.0KHz
Electrostatic Capacity (pF)	11,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ16.5xH4.0
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

Wire Type

PIEZO TRANSDUCER

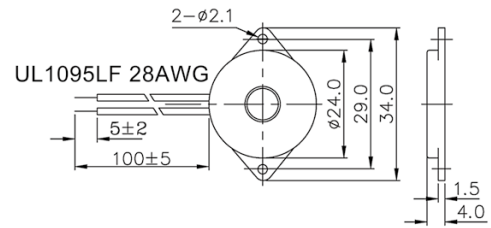
A

Piezo Buzzer

KPEG120

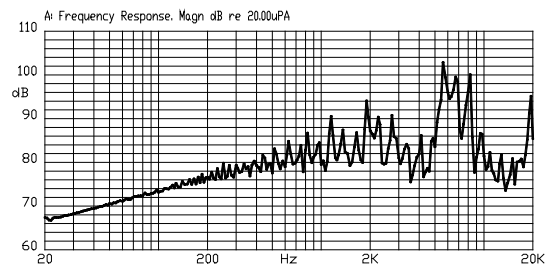


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 8@10Vp-p, Square Wave, 6.0KHz
Sound Pressure Level (dB)	Min. 88@10cm/10Vp-p, Square Wave, 6.0KHz
Electrostatic Capacity (pF)	12,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ24.0xH4.0
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

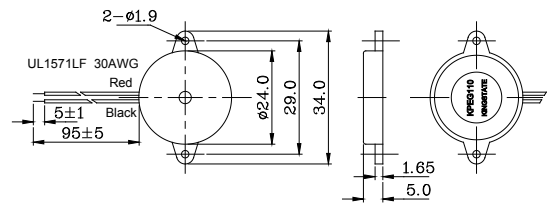
Wire Type

PIEZO TRANSDUCER

KPEG110

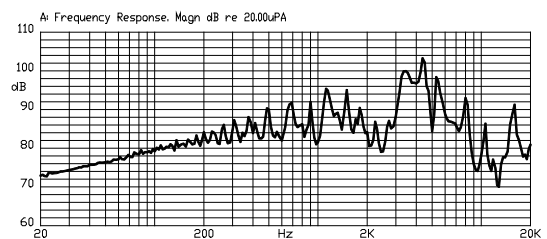


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 12@10Vp-p, square wave, 4.1KHz
Sound Pressure Level (dB)	Min. 90@10cm/10Vp-p, Square Wave, 4.1KHz
Electrostatic Capacity (pF)	25,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ24.0xH5.0
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

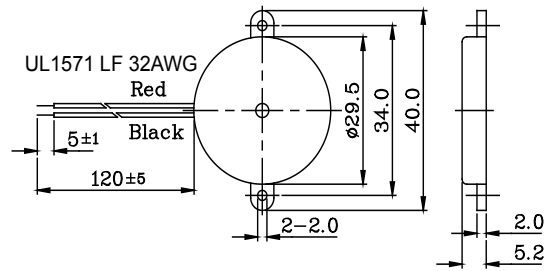
Wire Type

PIEZO TRANSDUCER

KPEG126

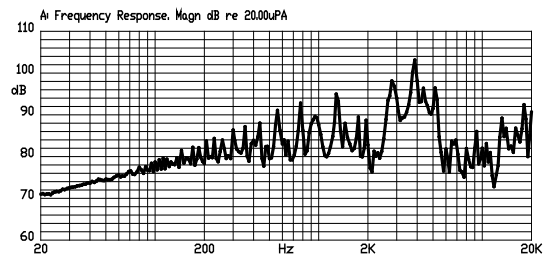


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 10@10Vp-p, Square Wave, 2.8KHz
Sound Pressure Level (dB)	Min. 92@10cm/10Vp-p, Square Wave, 2.8KHz
Electrostatic Capacity (pF)	18,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ29.5xH5.2
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

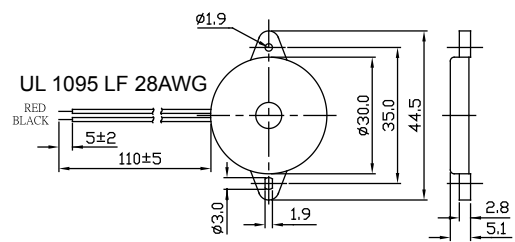
Wire Type

PIEZO TRANSDUCER

KPEG827

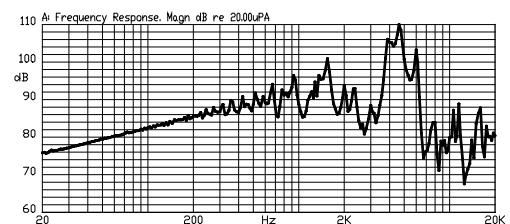


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 50
Current Consumption (mA)	Max. 11@10Vp-p, Square Wave, 4.5KHz
Sound Pressure Level (dB)	Min. 97@10cm/10Vp-p, Square Wave, 4.5KHz
Electrostatic Capacity (pF)	18,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ30.0xH5.1
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

Wire Type

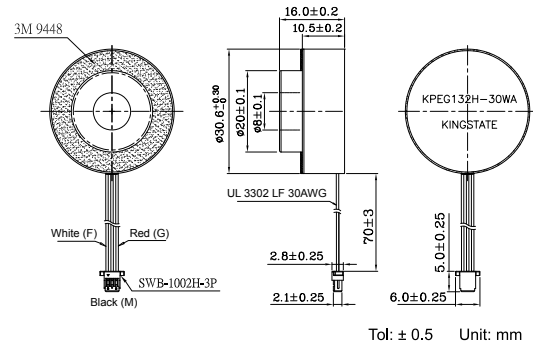
A

Piezo Buzzer

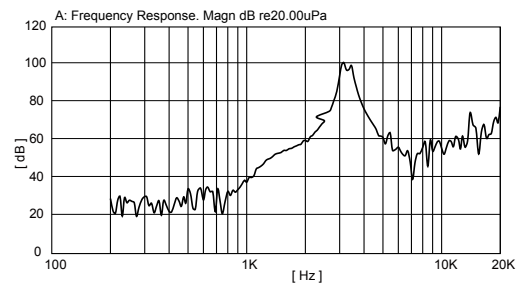
KPEG132H-30WA



Dimension



Characteristic



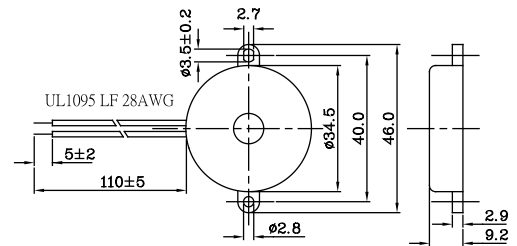
Rated Frequency (Hz)	3,000 ± 500
Operating Voltage Range (VDC)	5.5 ~ 16.0
Sound Pressure Level (dB)	Min. 100 (Typical 108) @ 30cm/12VDC Min. 85 (Typical 92) @ 300cm/12VDC
Operating Temperature (°C)	-25 ~ +85
Storage Temperature (°C)	-25 ~ +95
Dimension (mm)	Φ30.6xH16.0
Tone	Continuous
Material	PBT+15% Glass UL 94 V-2 (Black)

Wire Type

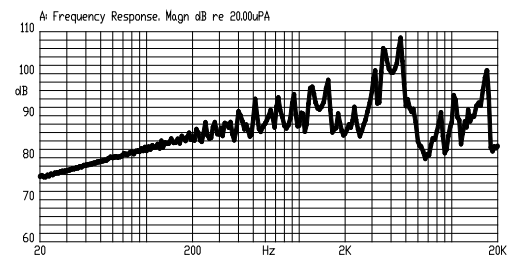
KPEG141



Dimension



Characteristic



Rated Voltage (Vp-p)	Max. 30
Current Consumption (mA)	Max. 11 @ 10Vp-p, Square Wave, 1.1KHz
Sound Pressure Level (dB)	Min. 81 @ 10cm/10Vp-p, Square Wave, 1.1KHz
Electrostatic Capacity (pF)	43,000 ± 30% @ 120Hz/1V
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ34.5xH9.2
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

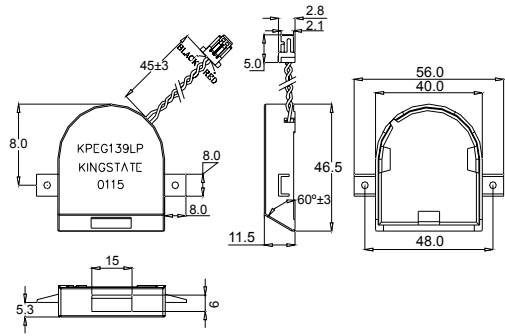
Wire Type

PIEZO TRANSDUCER

KPEG139LP

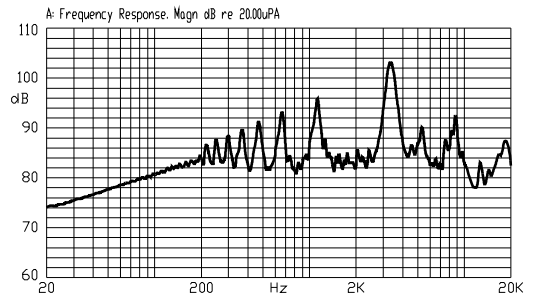


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 60
Current Consumption (mA)	Max. 30@12Vp-p, Square Wave, 3,260Hz
Sound Pressure Level (dB)	Min. 98@10cm/12Vp-p, Square Wave, 3,260Hz Min. 85@300cm/12Vp-p, Square Wave, 3,260Hz
Electrostatic Capacity (pF)	30,000 ± 30%@1KHz/1V
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	Φ40.0xH11.0
Material	PBT (Black)

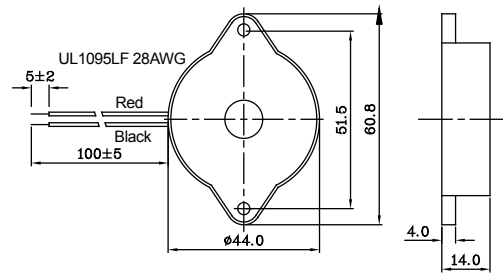
Wire Type

PIEZO TRANSDUCER

KPEG142

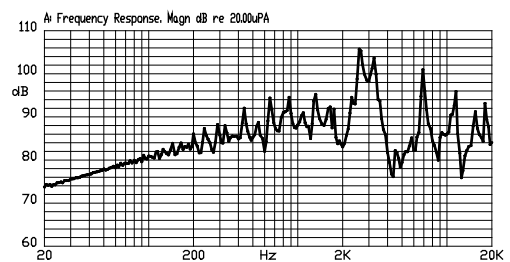


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Voltage (Vp-p)	Max. 50
Current Consumption (mA)	Max. 10@10Vp-p, Square Wave, 800Hz
Sound Pressure Level (dB)	Min. 80@10cm/10Vp-p, Square Wave, 800Hz
Electrostatic Capacity (pF)	70,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	Φ60.8xH14.0
Material	ABS

Wire Type-Self Drive Type

PIEZO TRANSDUCER

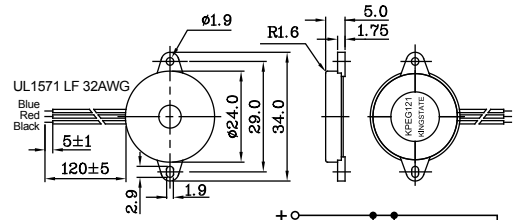
A

Piezo Buzzer

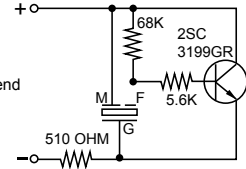
KPEG121



Dimension



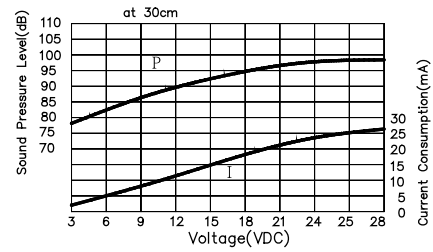
The current consumption and the sound pressure level are measured by using the recommend driving circuit shown as below (one example)



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	4,500 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 13@12VDC
Sound Pressure Level (dB)	Min. 83@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ24.0xH5.0
Material	ABS UL-94 1/16"HB HIGH HEAT (Black)

Characteristic



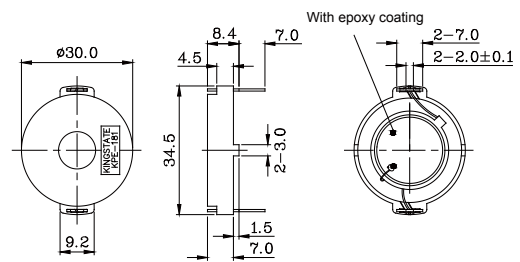
Annunciator Alarm

PIEZO TRANSDUCER

KPEG181



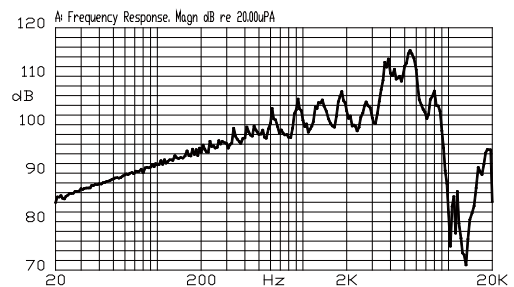
Dimension



Tol: ± 0.5 Unit: mm

Frequency Range (Hz)	2,000 ~ 6,000
Operating Voltage Max. (Vp-p) Sine Wave 85/Square Wave 50 / Continuous	
Operating Voltage Max. (Vp-p) Sine Wave 100/Square Wave 60 / Intermittent	
Sound Pressure Level (dB)	Min. 85@3m/18Vp-p, Square Wave, 5.5KHz Min. 82@1m/2.832Vrms Sine Wave, 5.5KHz
Electrostatic capacity (pF)	200,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-40 ~ +105
Storage Temperature (°C)	-40 ~ +105
Dimension (mm)	Φ30.0xH7.0
Material	PBT+15%GLASS UL94V-0 (Black)

Characteristic



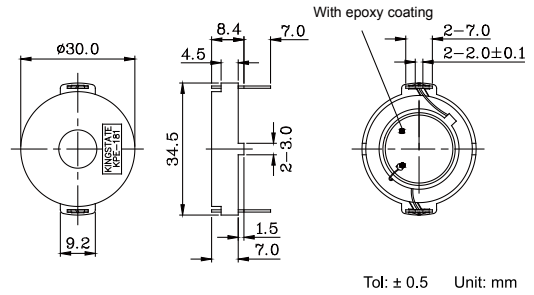
Annunciator Alarm

PIEZO TRANSDUCER

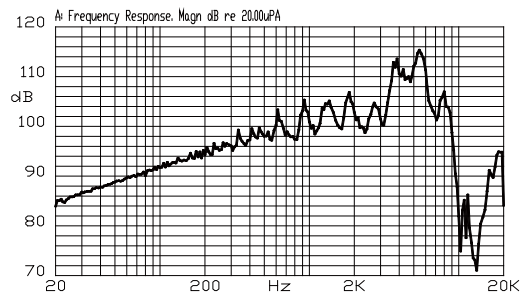
KPEG181-W1



Dimension



Characteristic



Frequency Range (Hz)	2,000 ~ 6,000
Operating Voltage Max. (Vp-p)	Sine Wave 85/Square Wave 50 / Continuous
Operating Voltage Max. (Vp-p)	Sine Wave 100/Square Wave 60 / Intermittent
Sound Pressure Level (dB)	Min. 85@3m/18Vp-p, Square Wave, 5.5KHz Min. 82@1m/2.832Vrms Sine Wave, 5.5KHz
Electrostatic capacity (pF)	200,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +85
Dimension (mm)	Φ30.0xH7.0
Material	PBT+15% GLASS UL94V-0 (White)

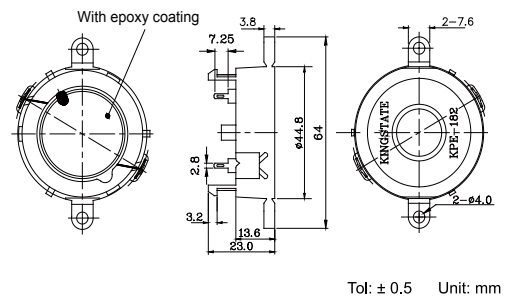
Annunciator Alarm

PIEZO TRANSDUCER

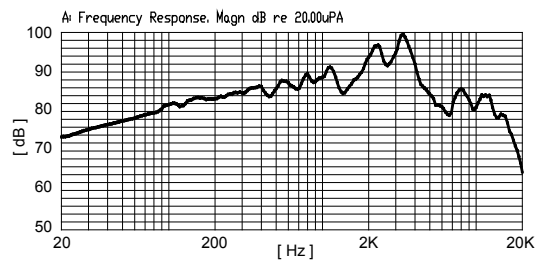
KPEG182



Dimension



Characteristic



Frequency Range (Hz)	2,200 ~ 4,000
Operating Voltage Max. (Vp-p)	Sine Wave 85/Square Wave 50 / Continuous
Operating Voltage Max. (Vp-p)	Sine Wave 100/Square Wave 60 / Intermittent
Capacitance (pF)	235,000 ± 30%@120Hz/1V
Sound Pressure Level (dB)	Min. 100@30cm/12Vp-p, Sine Wave, 3.0KHz
Operating Temperature (°C)	-40 ~ +105
Storage Temperature (°C)	-40 ~ +105
Dimension (mm)	Φ44.8xH13.6
Material	PBT+15% GLASS UL94V-0 (Black)

Annunciator Alarm

PIEZO TRANSDUCER

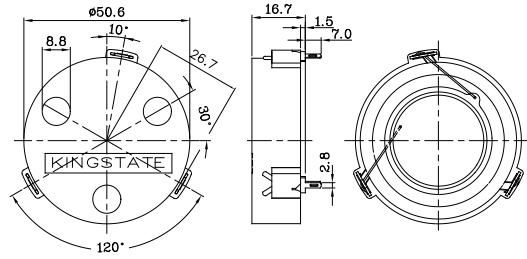
A

Piezo Buzzer

KPEG183

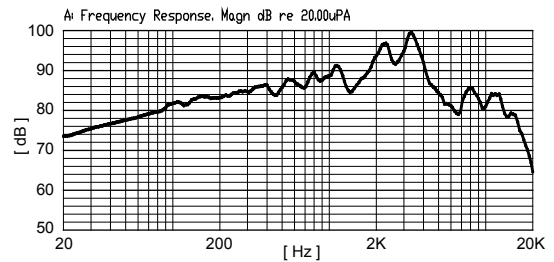


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Frequency Range (Hz)	2,000 ~ 4,000
Operating Voltage Max. (Vp-p)	Sine Wave 85/Square Wave 50 / Continuous Sine Wave 100/Square Wave 60 / Intermittent
Sound Pressure Level (dB)	Min. 85@3m/18Vp-p, Square Wave, 3.2KHz Min. 82@1m/2.832Vrms Sine Wave, 3.2KHz
Electrostatic capacity (pF)	0.235 \pm 30%@120Hz/1V
Operating Temperature (°C)	-40 ~ +105
Storage Temperature (°C)	-40 ~ +105
Dimension (mm)	$\phi 51.5 \times H16.7$
Material	PBT+30% GLASS UL94V-0 (Black)

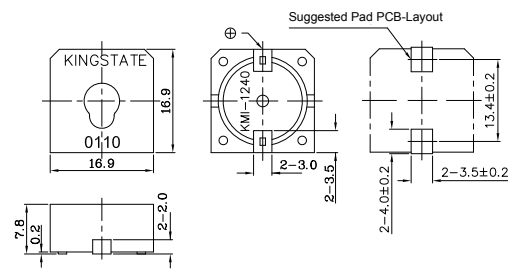
SMD Type

PIEZO INDICATOR

KMIG1240H-TR

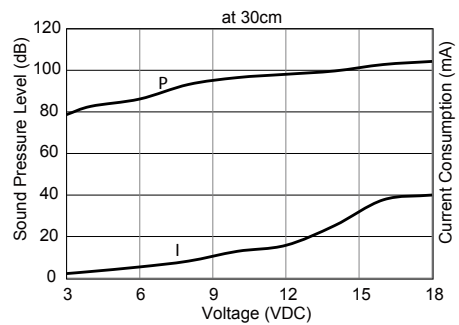


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	4,000 \pm 200
Operating Voltage Range (VDC)	3 ~ 18
Current Consumption (mA)	Max. 18@12VDC
Sound Pressure Level (dB)	Min. 90@10cm/12VDC
Operating Temperature (°C)	-30 ~ +70
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	L16.9xW16.9xH7.8
Tone	Continuous
Material	PPS UL-94 V-0 (Black)

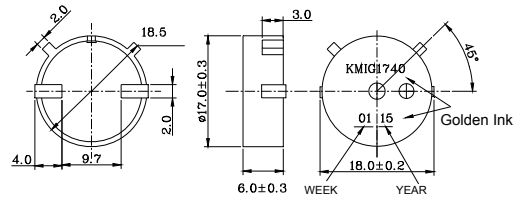
SMD Type

PIEZO INDICATOR

KMIG1740

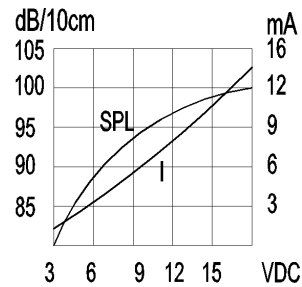


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	4,000 ± 500
Operating Voltage Range (VDC)	3 ~ 16
Current Consumption (mA)	Max. 12@12VDC
Sound Pressure Level (dB)	Min. 90@10cm/12VDC
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +90
Dimension (mm)	Φ17.0xH6.0
Tone	Continuous
Material	PPS (Black)

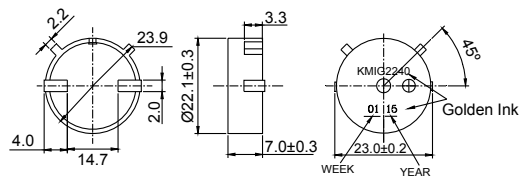
SMD Type

PIEZO INDICATOR

KMIG2240

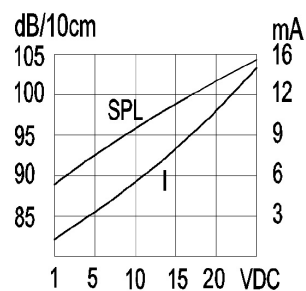


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



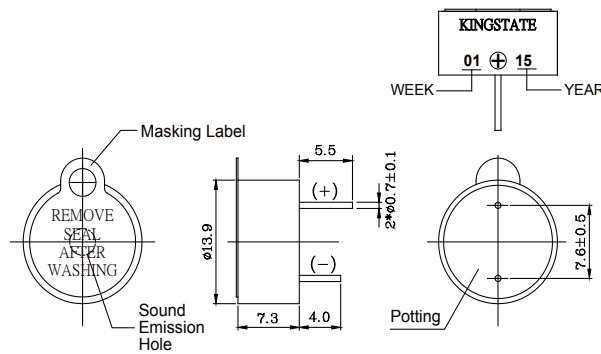
Rated Frequency (Hz)	4,000 ± 500
Operating Voltage Range (VDC)	1 ~ 20
Current Consumption (mA)	Max. 12@12VDC
Sound Pressure Level (dB)	Min. 95@10cm/12VDC
Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +90
Dimension (mm)	Φ22.0xH7.0
Tone	Continuous
Material	PPS (Black)

KPEG242-5V
KPEG242-12V
KPEG242-24V



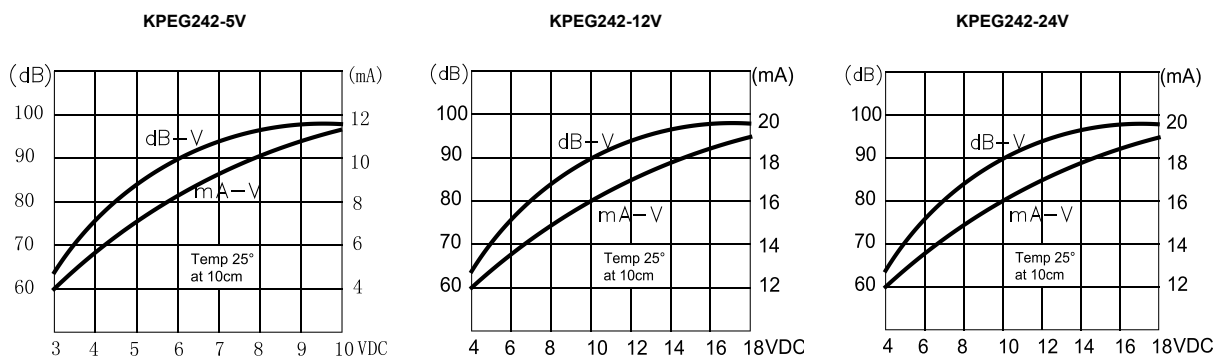
Model Number	KPEG242-5V	KPEG242-12V	KPEG242-24V
Rated Frequency (Hz)		3,900 ~ 4,700	
Operating Voltage Range (VDC)	3 ~ 10	4 ~ 18	12 ~ 34
Current Consumption (mA)	Max. 8@5VDC	Max. 18@12VDC	Max. 18@24VDC
Sound Pressure Level (dB)	Min. 88@10cm/5VDC	Min. 92@10cm/12VDC	Min. 95@10cm/24VDC
Operating Temperature (°C)		-30 ~ +80	
Storage Temperature (°C)		-40 ~ +85	
Dimension (mm)		Φ13.9xH7.3	
Tone		Continuous	
Material		PBT (Black)	

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



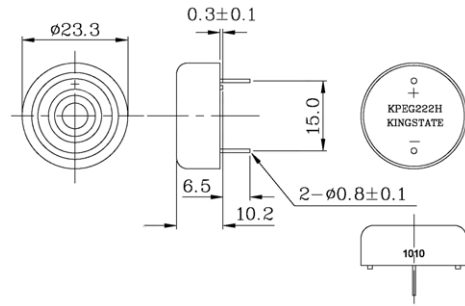
Pin Type

PIEZO INDICATOR

**KPEG222
KPEG222H**

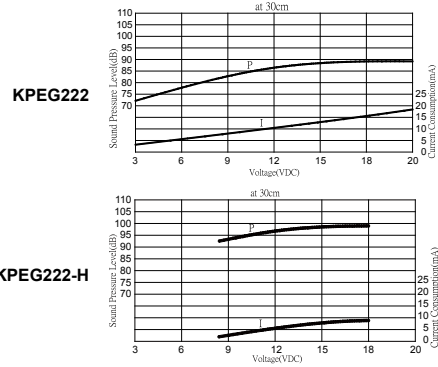


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG222	KPEG222-H
Rated Frequency (Hz)	3,200 ± 500	
Operating Voltage Range (VDC)	3 ~ 20	5 ~ 18
Current Consumption (mA)	Max. 13 @12VDC	Max. 10 @12VDC
Sound Pressure Level (dB)	Min. 75@30cm/12VDC	Min. 85@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ23.3xH10.2	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

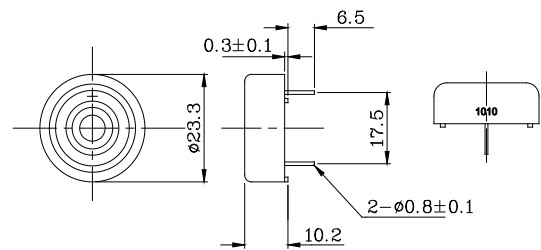
Pin Type

PIEZO INDICATOR

**KPEG232
KPEG232H**

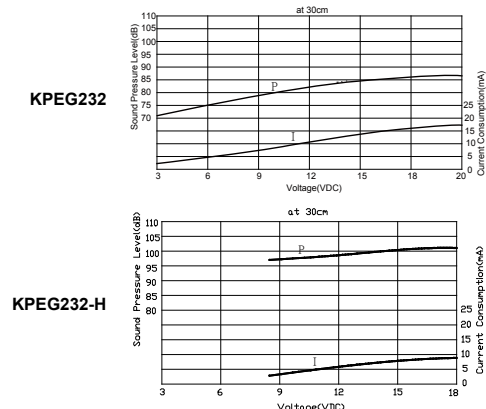


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG232	KPEG232-H
Rated Frequency (Hz)	3,200 ± 500	
Operating Voltage Range (VDC)	3 ~ 20	8 ~ 18
Current Consumption (mA)	Max. 13 @12VDC	Max. 10 @12VDC
Sound Pressure Level (dB)	Min. 75@30cm/12VDC	Min. 85@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ23.3xH10.2	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Pin Type

PIEZO INDICATOR

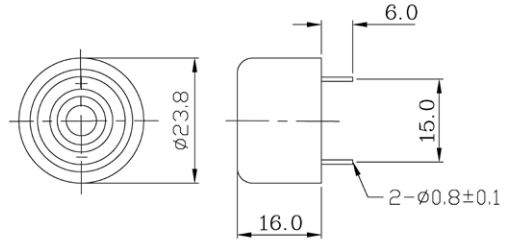
A

Piezo Buzzer

KPEG202T-1

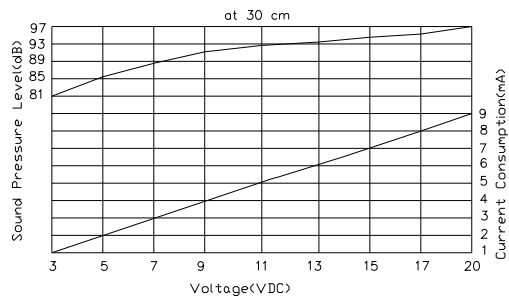


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,900 ± 500
Operating Voltage Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 6@12VDC
Sound Pressure Level (dB)	Min. 78@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ23.8xH16.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Gray)

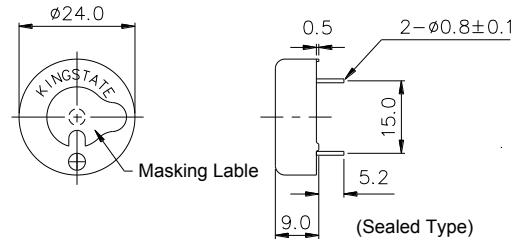
Pin Type

PIEZO INDICATOR

KPEG228 KPEG228-24V

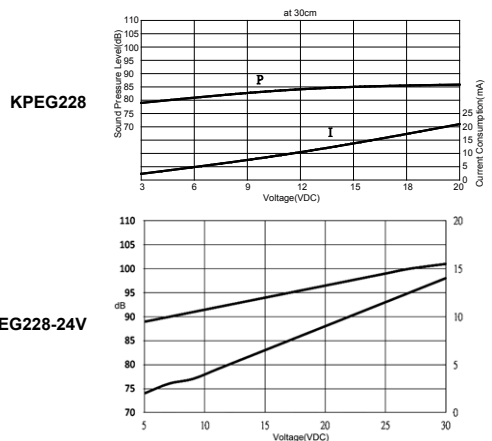


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG228	KPEG228-24V
Rated Frequency (Hz)	3,400 ± 500	
Operating Voltage Range (VDC)	3 ~ 20	5 ~ 30
Current Consumption (mA)	Max. 15@12VDC	Max. 20@24VDC
Sound Pressure Level (dB)	Min. 80@30cm/12VDC	Min. 90@10cm/24VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ24.0xH9.0	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

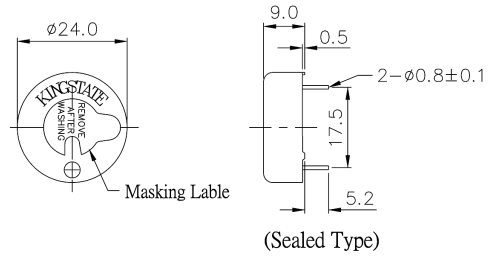
Pin Type

PIEZO INDICATOR

KPEG238

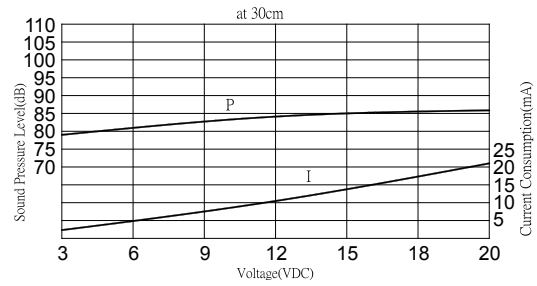


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	3,400 ± 500
Operating Voltage Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 15@12VDC
Sound Pressure Level (dB)	Min. 80@30cm/12VDC
Operating Temperature(°C)	-30 ~ + 85
Storage Temperature(°C)	-40 ~ + 95
Dimension (mm)	Φ24.0xH9.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

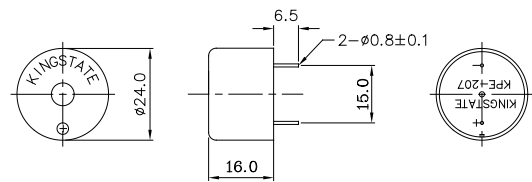
Pin Type

PIEZO INDICATOR

KPEG207 KPEG207H

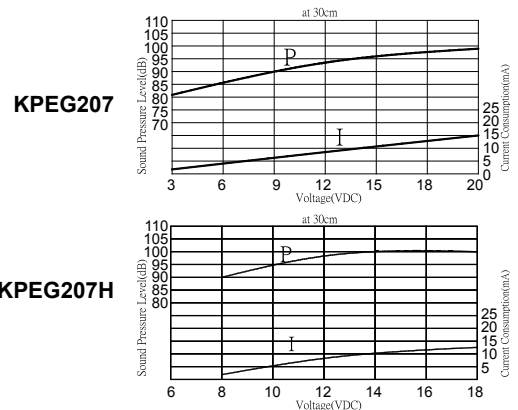


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG207	KPEG207H
Rated Frequency (Hz)	3,000 ± 500	
Rated Voltage (VDC)	12	
Operating Volt. Range (VDC)	3 ~ 20	8 ~ 18
Current Consumption (mA)	Max. 13@12VDC	Max. 11@12VDC
Sound Pressure Level (dB)	Min. 83@30cm/12VDC	Min. 89@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ24.0xH16.0	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Pin Type

PIEZO INDICATOR

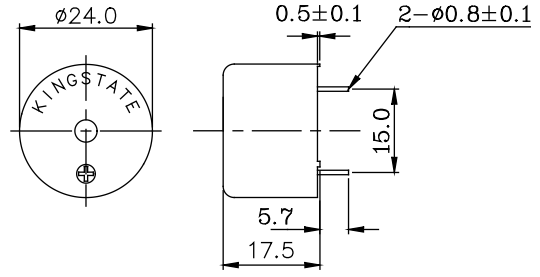
A

Piezo Buzzer

**KPEG208
KPEG208H**



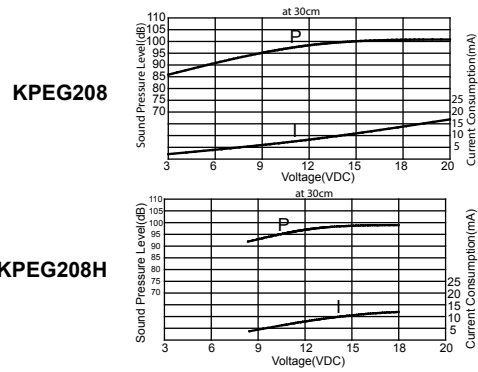
Dimension



Tol: ± 0.5 Unit: mm

Model Number	KPEG208	KPEG208H
Rated Frequency (Hz)	4,000 ± 500	3,500 ± 500
Operating Voltage Range (VDC)	3 ~ 20	5 ~ 18
Current Consumption (mA)	Max. 14@12VDC	Max. 13@12VDC
Sound Pressure Level (dB)	Min. 83@30cm/12VDC	Min. 91@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ24.0xH17.5	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Characteristic



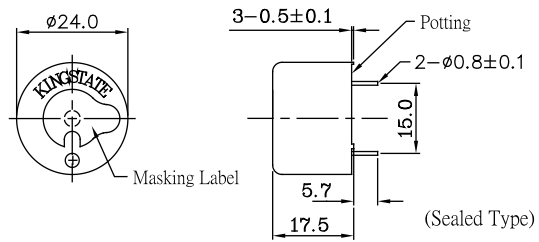
Pin Type

PIEZO INDICATOR

**KPEG218
KPEG218H**



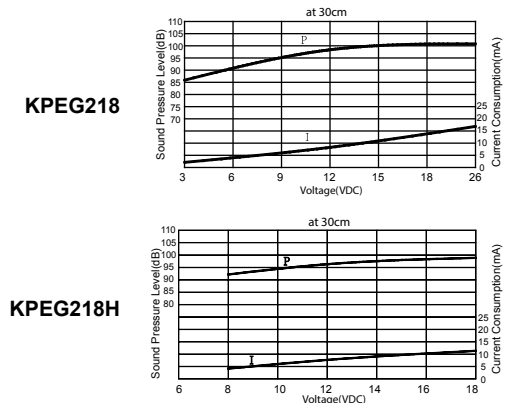
Dimension



Tol: ± 0.5 Unit: mm

Model Number	KPEG218	KPEG218H
Rated Frequency (Hz)	3,800 ± 500	3,500 ± 500
Operating Voltage Range (VDC)	3 ~ 26	8 ~ 18
Current Consumption (mA)	Max. 15@12VDC	Max. 13@12VDC
Sound Pressure Level (dB)	Min. 88@30cm/12VDC	Min. 91@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ24.0xH17.5	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Characteristic



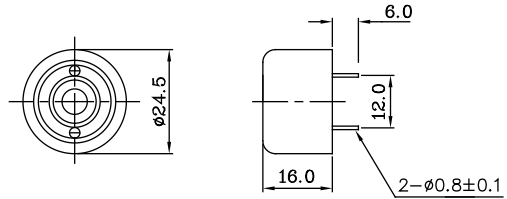
Pin Type

PIEZO INDICATOR

KPEG203

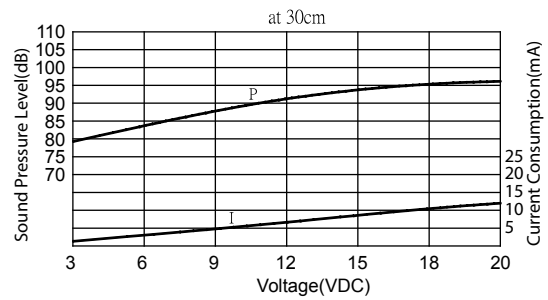


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	3,400 ± 500
Operating Voltage Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 9@12VDC
Sound Pressure Level (dB)	Min. 86@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ24.5xH16.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

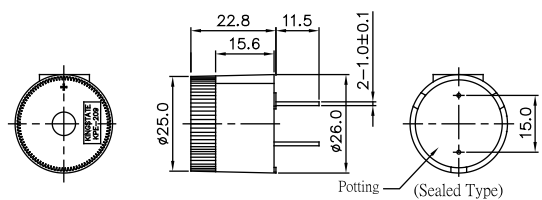
Pin Type

PIEZO INDICATOR

KPEG209

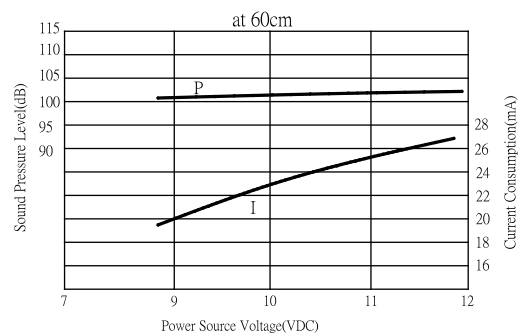


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,900 ± 500
Operating Voltage Range (VDC)	9 ~ 12
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 91@60cm/12VDC
Operating Temperature(°C)	-20 ~ +65
Storage Temperature(°C)	-40 ~ +80
Dimension (mm)	Φ26.0xH22.8
Tone	Continuous
Material	PC+10% Glass (Black)

Pin Type

PIEZO INDICATOR

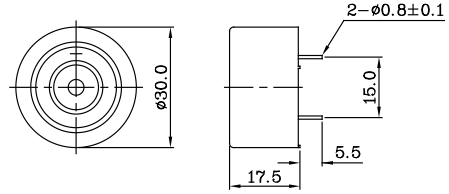
A

Piezo Buzzer

KPEG278



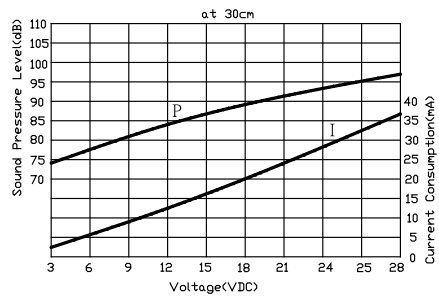
Dimension



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	1,800 ± 500
Rated Voltage (VDC)	12
Operating Volt. Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 18@12VDC
Sound Pressure Level (dB)	Min. 77@30cm/12VDC
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	Φ30.0xH17.5
Tone	Continuous
Material	ABS UL-94 1/16" HB (Black)

Characteristic



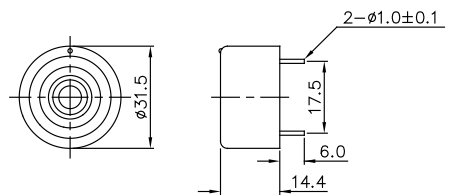
Pin Type

PIEZO INDICATOR

KPEG272 KPEG272H



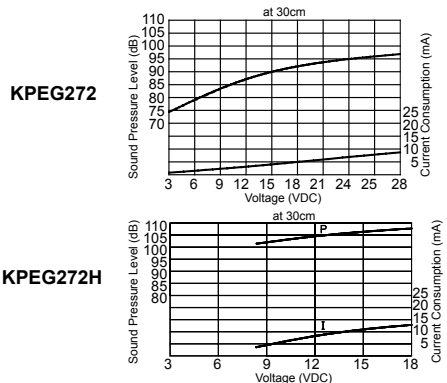
Dimension



Tol: ± 0.5 Unit: mm

Model Number	KPEG272	KPEG272H
Rated Frequency (Hz)	3,500 ± 500	
Rated Voltage (VDC)	12	
Operating Voltage Range (VDC)	3 ~ 28	8 ~ 18
Current Consumption (mA)	Max. 6@12VDC	Max. 13@12VDC
Sound Pressure Level (dB)	Min. 88@30cm/12VDC	Min. 97@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ31.5xH14.4	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Characteristic



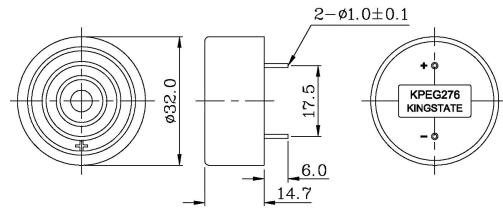
Pin Type

PIEZO INDICATOR

**KPEG276
KPEG276H**



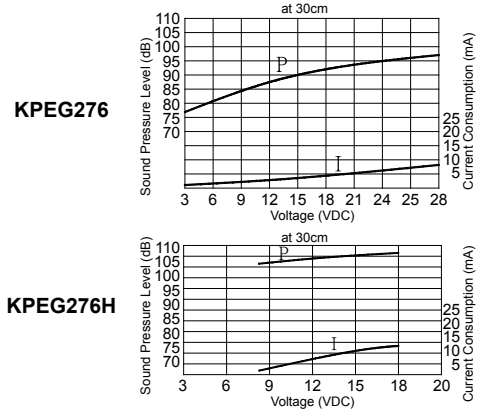
Dimension



Tol: ± 0.5 Unit: mm

Model Number	KPEG276	KPEG276H
Rated Frequency (Hz)	2,700 ± 500	3,000 ± 500
Operating Voltage Range (VDC)	3 ~ 28	8 ~ 18
Current Consumption (mA)	Max. 6@12VDC	Max. 11@12VDC
Sound Pressure Level (dB)	Min. 79@30cm/12VDC	Min. 96@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	-30 ~ +80
Storage Temperature (°C)	-40 ~ +95	-40 ~ +80
Dimension (mm)	Φ32.0xH14.7	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Characteristic



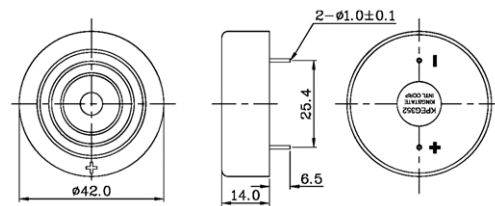
Pin Type

PIEZO INDICATOR

KPEG352



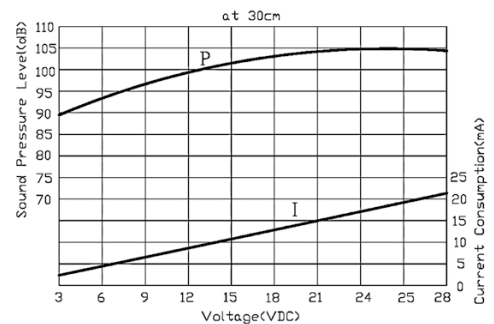
Dimension



Tol: ± 0.5 Unit: mm

Rated Frequency (Hz)	2,800 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 10@12VDC
Sound Pressure Level (dB)	Min. 89@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ42.0xH14.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

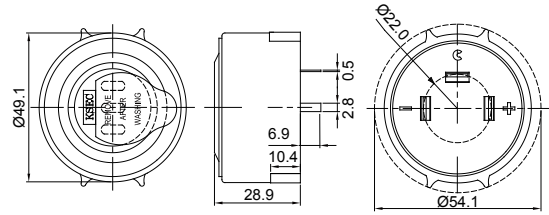
Characteristic



KPEG500

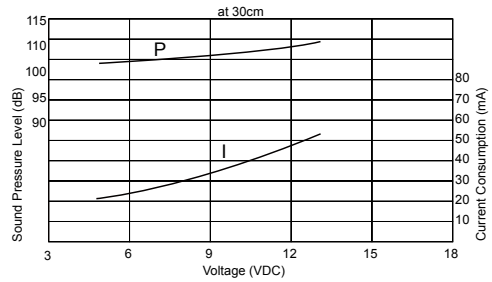


Dimension



Tol: ± 0.5 Unit: mm

Characteristic

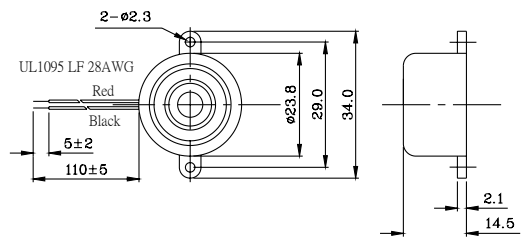


Rated Frequency (Hz)	2,500 ± 500
Operating Voltage Range (VDC)	5 ~ 13
Current Consumption (mA)	Max. 60@12VDC
Sound Pressure Level (dB)	Min. 104@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ49.1xH28.9
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

KPEG200
KPEG200-24AC/DC

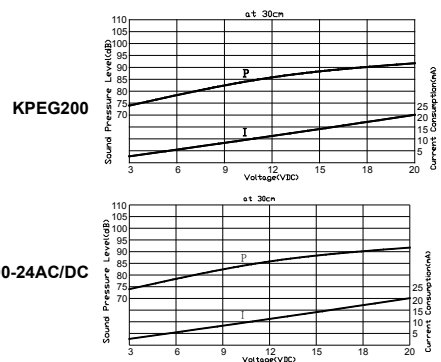


Dimension



Tol: ± 0.5 Unit: mm

Characteristic

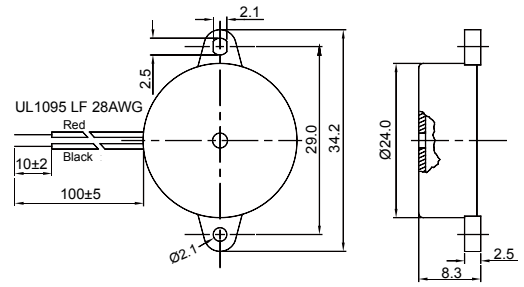


Model Number	KPEG200	KPEG200-24AC/DC
Rated Frequency (Hz)	3,100 ± 500	
Operating Voltage Range	3 ~ 20VDC	3 ~ 32 AC/DC
Current Consumption (mA)	Max. 14@12VDC	Max. 25@24VDC
Sound Pressure Level (dB)	Min. 73@30cm/12VDC	Min. 73@30cm/24VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ23.8xH14.5	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

KPEG220

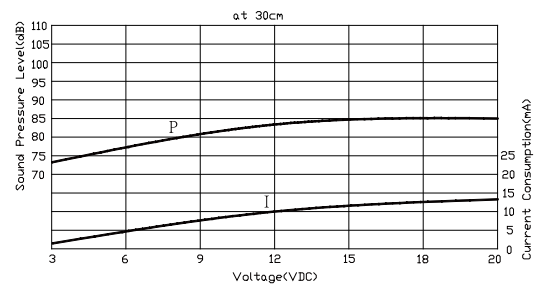


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



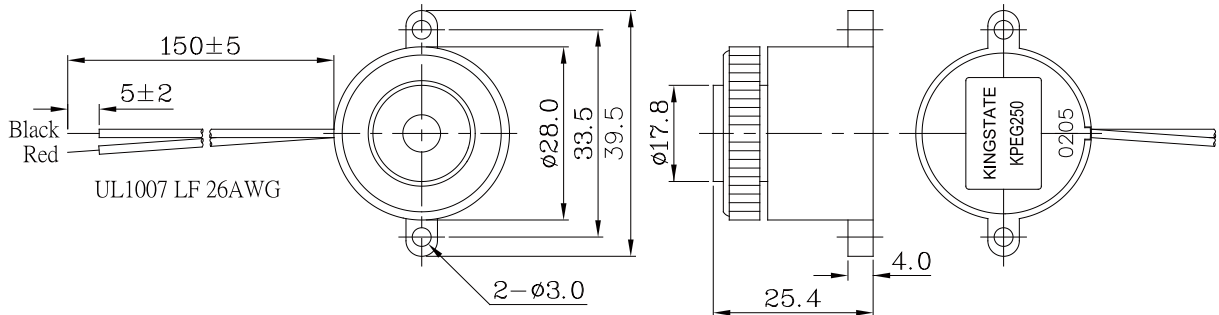
Rated Frequency (Hz)	3,100 ± 500
Rated Voltage (VDC)	12
Operating Volt. Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 14@12VDC
Sound Pressure Level (dB)	Min. 73@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ23.8xH14.5
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

**KPEG250
KPEG251
KPEG253**



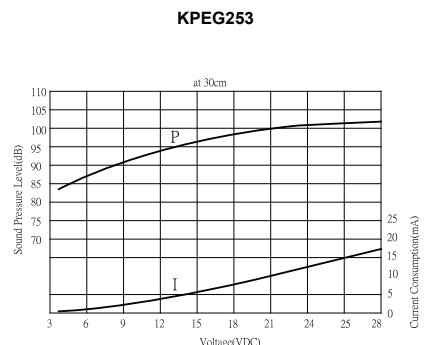
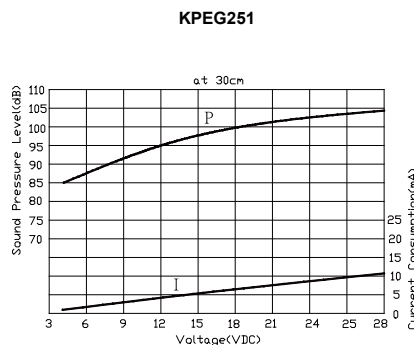
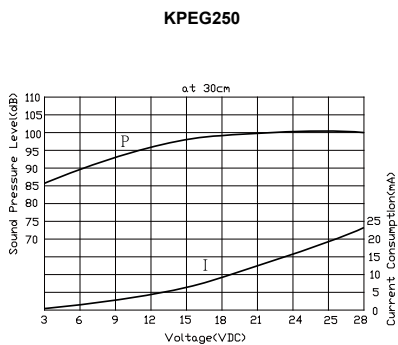
Model Number	KPEG250	KPEG251	KPEG253
Rated Frequency (Hz)	3,500 ± 500		
Operating Voltage Range (VDC)	3 ~ 28	4 ~ 28	
Current Consumption (mA)	Max. 6 @12VDC	Max. 5@12VDC	Max. 6@12VDC
Sound Pressure Level (dB)	Min. 85@30cm/12VDC	Min. 82@30cm/12VDC	Min. 87@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85		
Storage Temperature (°C)	-40 ~ +95		
Dimension (mm)	Φ28.0xH25.4		
Tone	Continuous	Fast Pulse (3.0Hz ± 20%)	Slow Pulse (1.2Hz ± 20%)
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)		

Dimension



Tol: ± 0.5 Unit: mm

Characteristic

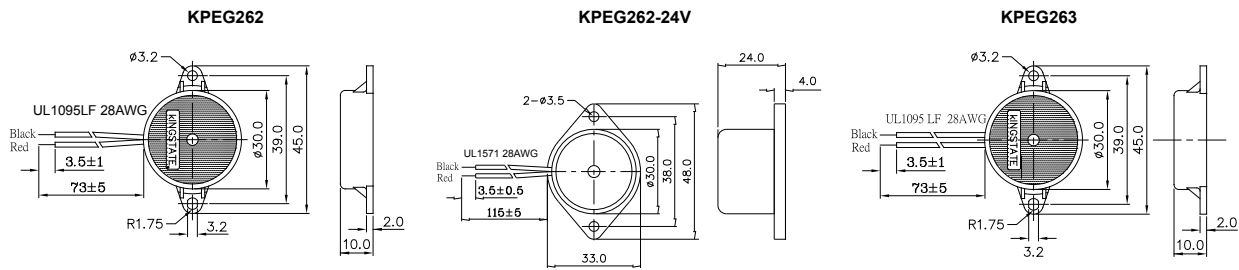


KPEG262
KPEG262-24V
KPEG263



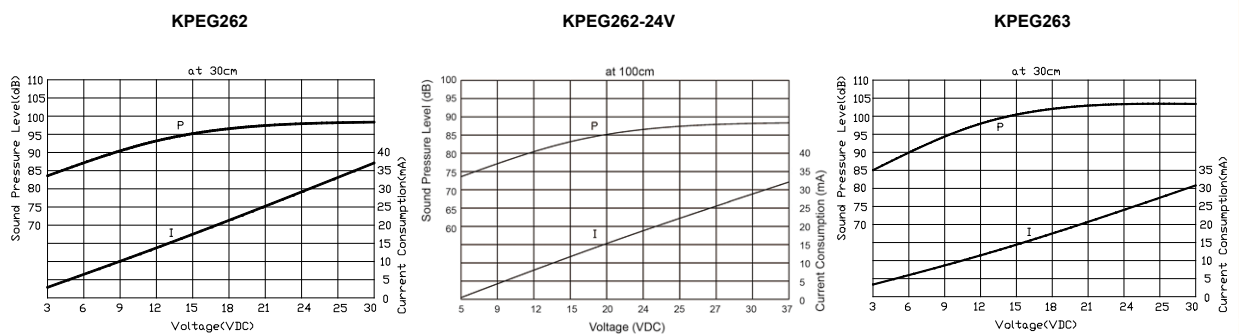
Model Number	KPEG262	KPEG262-24V	KPEG263
Rated Frequency (Hz)	2,500 ± 500	3,000 ± 500	3,500 ± 500
Operating Voltage Range (VDC)	3 ~ 30	5 ~ 37	3 ~ 30
Current Consumption (mA)	Max. 13@9VDC	Max. 40@24VDC	Max. 11@9VDC
Sound Pressure Level (dB)	Min. 85@30cm/9VDC	Min. 80@100cm/24VDC	Min. 85@30cm/9VDC
Operating Temperature (°C)	-30 ~ +85	-20 ~ +70	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95	-30 ~ +80	-40 ~ +95
Dimension (mm)	Φ30.0xH10.0	Φ30.0xH24.0	Φ30.0xH10.0
Tone		Continuous	
Material	PBT + 15% GLASS (Black)	ABS (Black)	PBT + 15% GLASS (Black)

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Wire Type

PIEZO INDICATOR

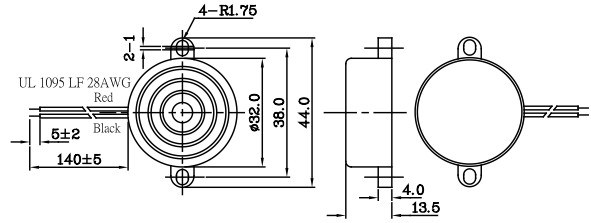
A

Piezo Buzzer

KPEG260
KPEG260H

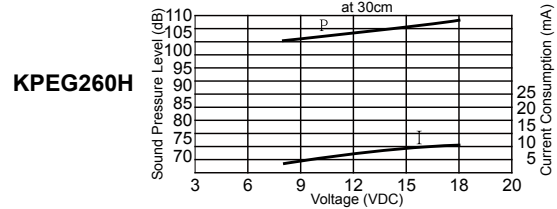
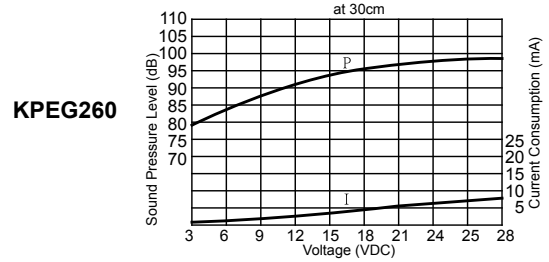


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Model Number	KPEG260	KPEG260H
Rated Frequency (Hz)	3,500 ± 500	
Operating Voltage Range (VDC)	3 ~ 28	8 ~ 18
Current Consumption (mA)	Max. 4@12VDC	Max. 12@12VDC
Sound Pressure Level (dB)	Min. 85@30cm/12VDC	Min. 92@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ32.0xH13.5	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

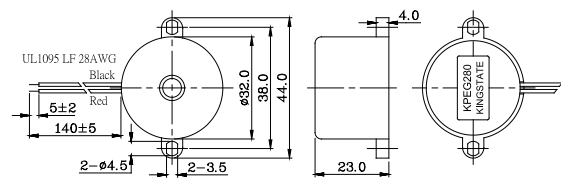
Wire Type

PIEZO INDICATOR

KPEG280

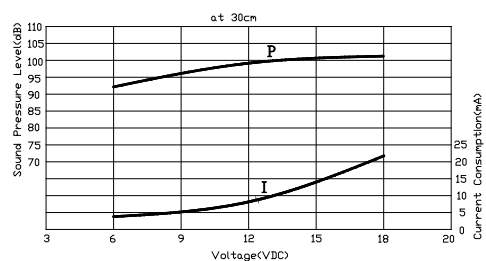


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



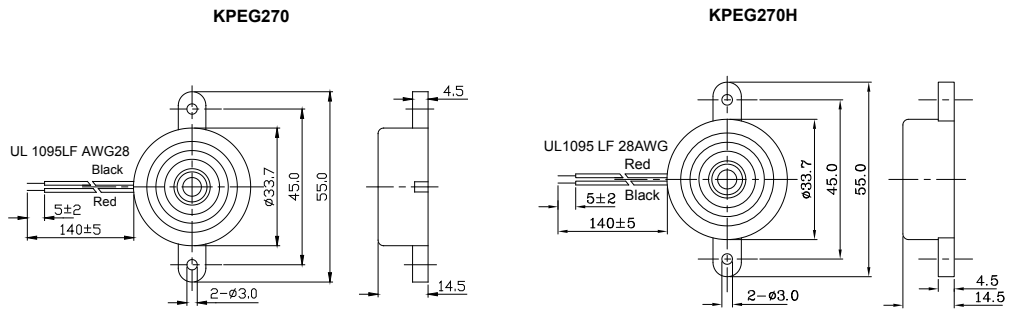
Rated Frequency (Hz)	2,500 ~ 3800
Operating Voltage Range (VDC)	6 ~ 18
Current Consumption (mA)	Max. 17 @12VDC
Sound Pressure Level (dB)	Min. 88@30cm/12VDC
Operating Temperature(°C)	-20 ~ +60
Storage Temperature(°C)	-30 ~ +70
Dimension (mm)	Φ32.0xH23.0
Tone	High/Low
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

KPEG270
KPEG270H



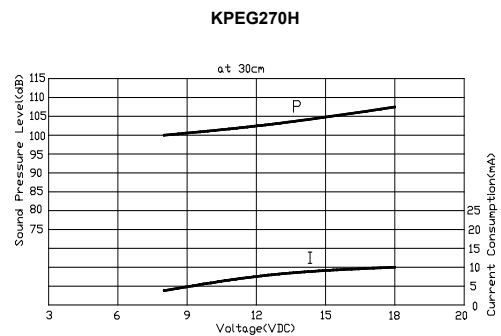
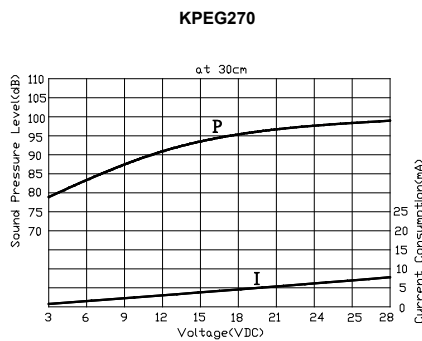
Model Number	KPEG270	KPEG270H
Rated Frequency (Hz)	3,500 ± 500	
Operating Voltage Range (VDC)	3 ~ 28	8 ~ 18
Current Consumption (mA)	Max. 5@12VDC	Max. 12@12VDC
Sound Pressure Level (dB)	Min. 86@30cm/12VDC	Min. 96@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ33.7xH14.5	
Tone	Continuous	
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

Dimension



Tol: ± 0.5 Unit: mm

Characteristic

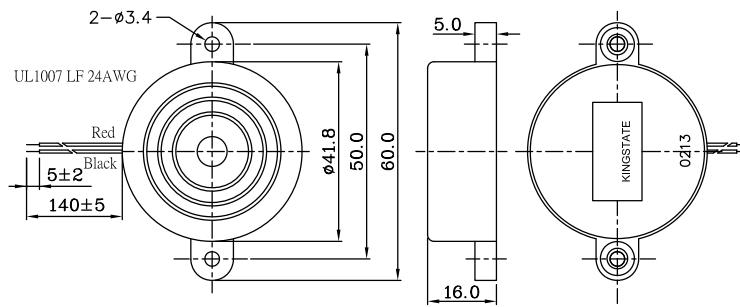


KPEG350
KPEG350H
KPEG350H-54V



Model Number	KPEG350	KPEG350H	KPEG350H-54V
Rated Frequency (Hz)		2,800 ± 500	
Operating Voltage Range (VDC)	3 ~ 28	8 ~ 18	9 ~ 54
Current Consumption (mA)	Max. 7@12VDC	Max. 15@12VDC	Max. 40@24VDC
Sound Pressure Level (dB)	Min. 85@30cm/12VDC		Min. 95@30cm/24VDC
Operating Temperature (°C)	-30 ~ +85		
Storage Temperature (°C)	-40 ~ +95		
Dimension (mm)	Φ41.8xH16.0		
Tone	Continuous		
Material	ABS UL-94 1/16" HB High Heat (Black)	PA-777D	

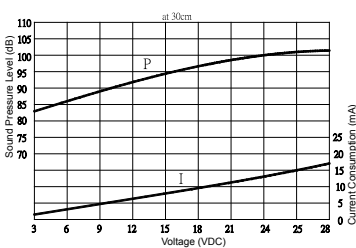
Dimension



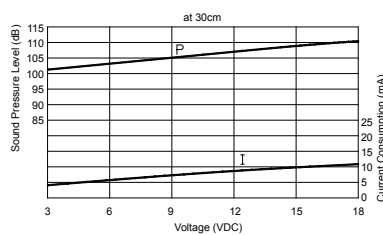
Tol: ± 0.5 Unit: mm

Characteristic

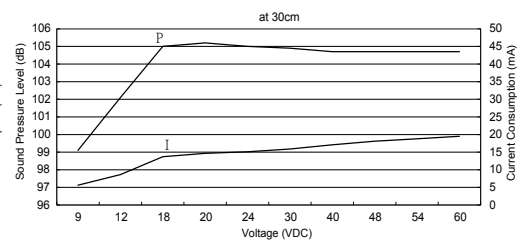
KPEG350



KPEG350H



KPEG350H-54V



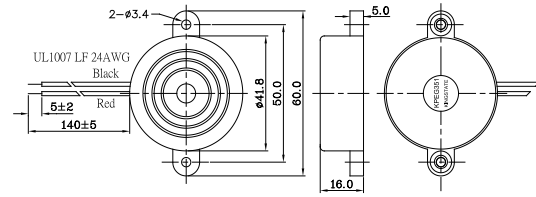
Wire Type

PIEZO INDICATOR

KPEG351

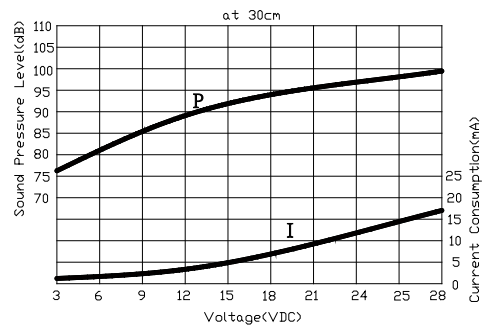


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,800 ± 500
Operating Voltage Range (VDC)	3 ~ 28
Current Consumption (mA)	Max. 6@12VDC
Sound Pressure Level (dB)	Min. 81@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ41.8xH16.0
Tone	Fast Pulse@12VDC (3.5Hz ± 20%)
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

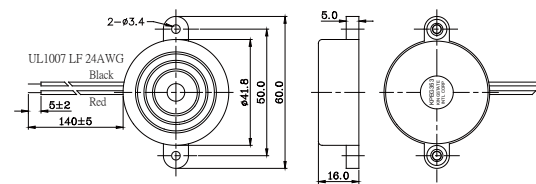
Wire Type

PIEZO INDICATOR

KPEG353 KPEG353H

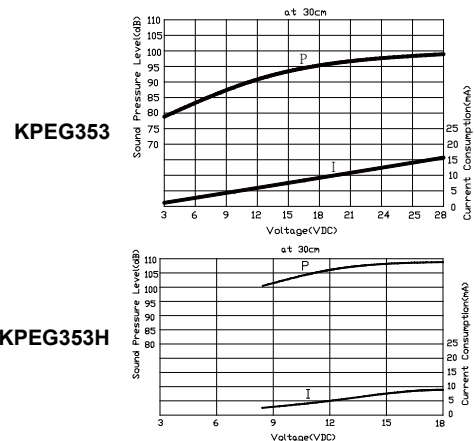


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



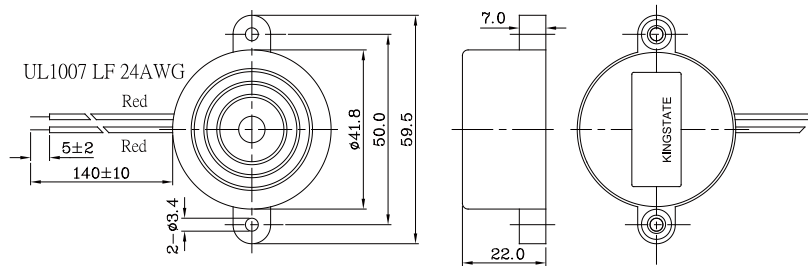
Model Number	KPEG353	KPEG353H
Rated Frequency (Hz)	2,800 ± 500	
Rated Voltage (VDC)	12	
Operating Volt. Range (VDC)	3 ~ 28	7 ~ 18
Current Consumption (mA)	Max. 8@12VDC	Max. 15@12VDC
Sound Pressure Level (dB)	Min. 81@30cm/12VDC	Min. 93@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85	
Storage Temperature (°C)	-40 ~ +95	
Dimension (mm)	Φ41.8xH16.0	
Tone	Slow Pulse (1.5Hz±20%@12VDC)	Slow Pulse (1.2Hz±20%@12VDC)
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)	

KPEG400AC
KPEG411AC
KPEG422AC



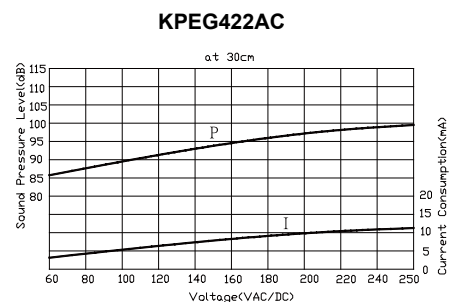
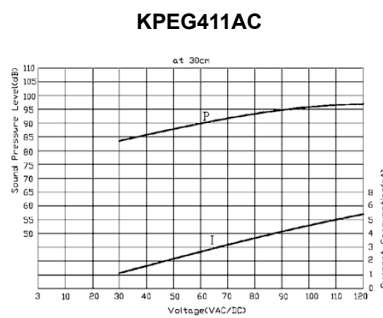
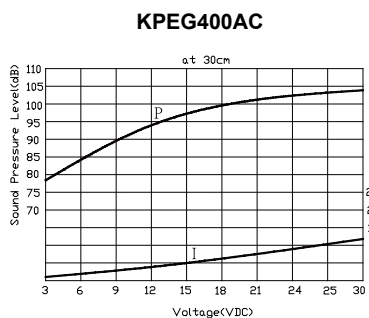
Model Number	KPEG400AC	KPEG411AC	KPEG422AC
Rated Frequency (Hz)	3,100 ± 500	2,800 ± 500	3,000 ± 500
Operating Voltage Range (VAC/VDC)	3~30 (AC/DC) non-polar	30~120 (AC/DC) non-polar	60~250 (AC/DC) non-polar
Current Consumption (mA)	Max. 8@12VAC	Max. 7@110VAC	Max. 13@220VAC
Sound Pressure Level (dB)	Min. 89@30cm/12VAC	Min. 88@30cm/110VAC	Min. 92@30cm/220VAC
Operating Temperature (°C)	-30 ~ +85		
Storage Temperature (°C)	-40 ~ +95		
Dimension (mm)	Φ41.8xH22.0		
Tone	Continuous		
Material	ABS UL-94 1/16" HB (Black)		

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



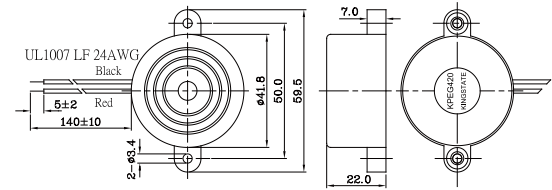
Wire Type

PIEZO INDICATOR

KPEG420

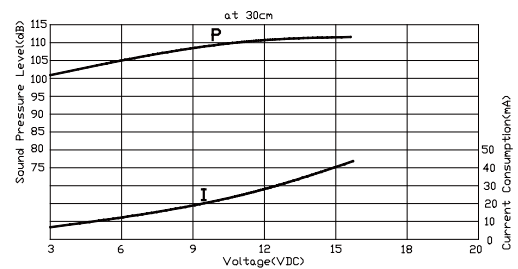


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,800 ± 500
Operating Voltage Range (VDC)	3 ~ 16
Current Consumption (mA)	Max. 40@12VDC
Sound Pressure Level (dB)	Min. 102@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ41.8xH22.0
Tone	Continuous
Material	ABS UL-94 1/16" HB (Black)

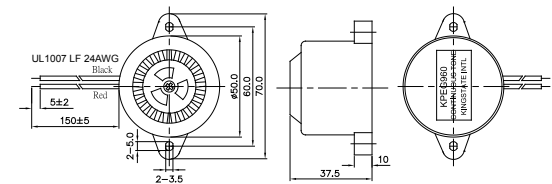
Wire Type

PIEZO INDICATOR

KPEG960

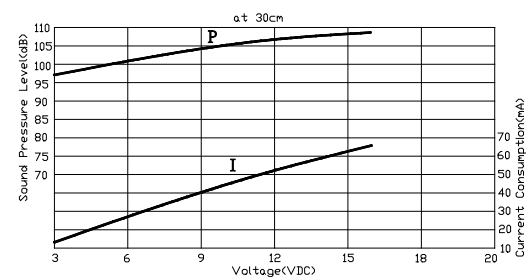


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,500 ± 500
Operating Voltage Range (VDC)	3 ~ 16
Current Consumption (mA)	Max. 58@12VDC
Sound Pressure Level (dB)	Min. 100@30cm/12VDC
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	Φ50.0xH37.5
Tone	Continuous
Material	ABS UL-94 1/16" HB (Black)

Wire Type

PIEZO INDICATOR

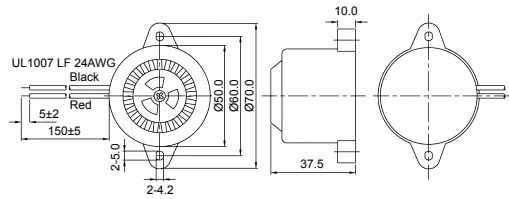
A

Piezo Buzzer

KPEG980

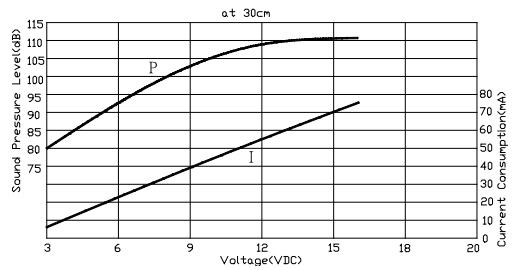


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	1,100 ~ 2,800
Operating Voltage Range (VDC)	3 ~ 16
Current Consumption (mA)	Max. 120@12VDC
Sound Pressure Level (dB)	Min. 100@30cm/12VDC
Operating Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-40 ~ +80
Dimension (mm)	Φ50.0xH37.5
Tone	High/Low@12VDC
Material	ABS UL-94 1/16" HB (Black)

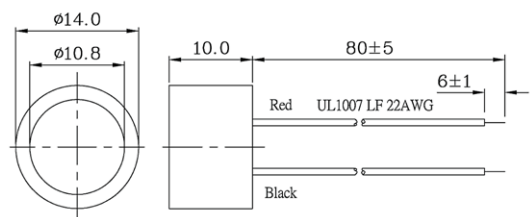
Waterproof Type

PIEZO INDICATOR

KPEG243

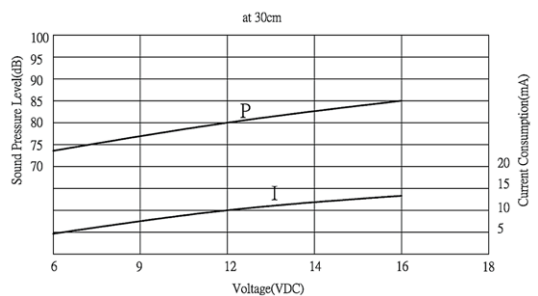


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	5,000 ± 500
Operating Voltage Range (VDC)	9 ~ 16
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 80@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ14.0xH10.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

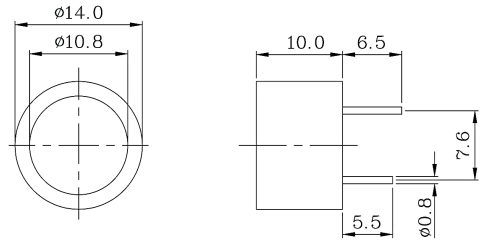
Waterproof Type

PIEZO INDICATOR

KPEG244

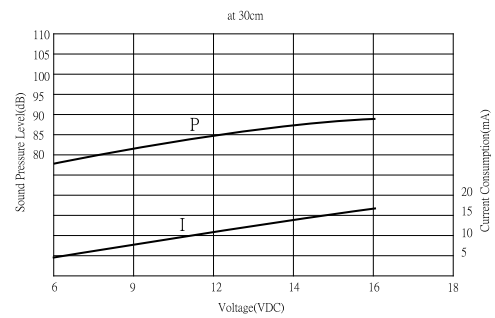


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	5,000 ± 500
Operating Voltage Range (VDC)	9 ~ 16
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 80@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ14.0xH10.0
Tone	Continuous
Material	PBT+15% GLASS

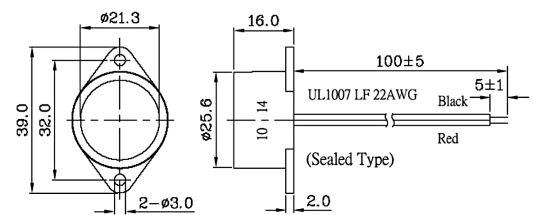
Waterproof Type

PIEZO INDICATOR

KPEG267

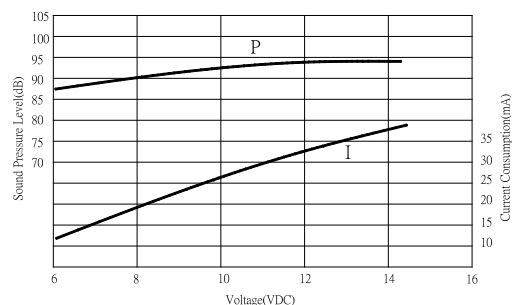


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,800 ± 500
Operating Voltage Range (VDC)	6 ~ 14
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 85@30cm/12VDC
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ25.6xH16.0
Tone	Continuous
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

Waterproof Type

A

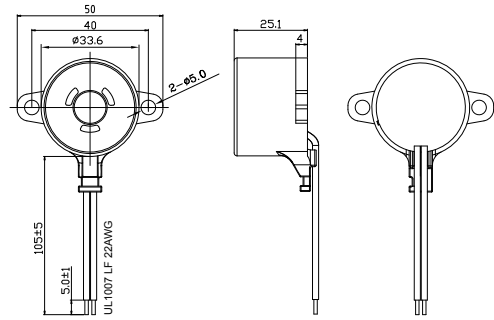
Piezo Buzzer

KPEG268H-1



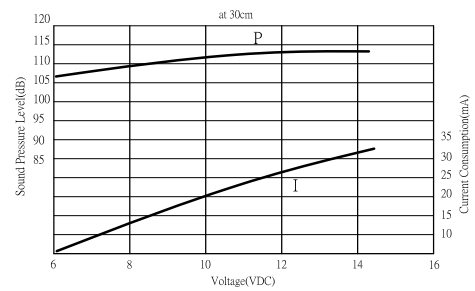
Rated Frequency (Hz)	3,500 ± 500
Operating Voltage Range (VDC)	6 ~ 16
Current Consumption (mA)	Max. 35@12VDC
Sound Pressure Level (dB)	Min. 108@30cm/12VDC
Operating Temperature(°C)	-30 ~ +85
Storage Temperature(°C)	-40 ~ +95
Dimension (mm)	Φ33.6xH25.1
Tone	Continuous
Material	PBT+15% GF (Black)

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



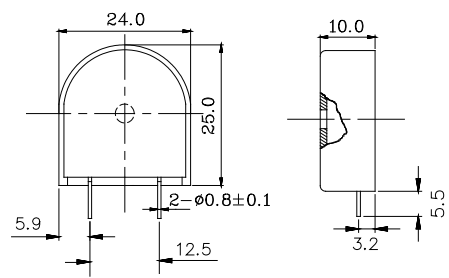
Vertical Mounting Type

KPEG522



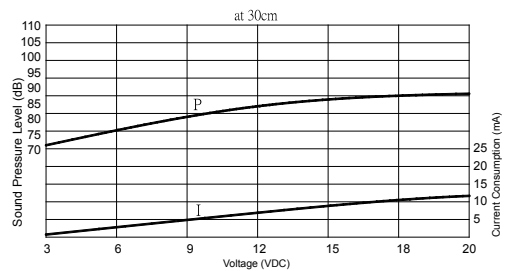
Rated Frequency (Hz)	3,200 ± 500
Rated Voltage (VDC)	12
Operating Volt. Range (VDC)	3 ~ 20
Current Consumption (mA)	Max. 10@12VDC
Sound Pressure Level (dB)	Min. 75@30cm/12VDC
Operating Temperature (°C)	-30 ~ +115
Storage Temperature (°C)	-40 ~ +125
Dimension (mm)	L25.0xW24.0xH10.0
Tone	Continuous
Material	PC 10% GLASS (Black)

Dimension



Tol: ± 0.5 Unit: mm

Characteristic



A

Piezo Buzzer

KPEG650 SERIES



KPEG650/650A
KPEG650AN/610AN
KPEG648



KPEG651/653
KPEG651A/653A
KPEG651AN/653AN
KPEG611AN/613AN



KPEG655/657
KPEG655A/657A

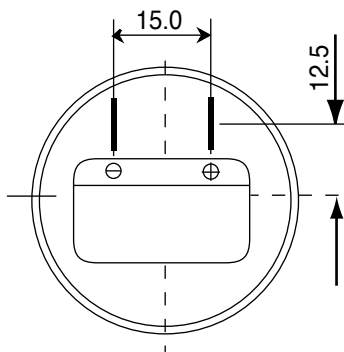


KPEG620AN
KPEG660/680

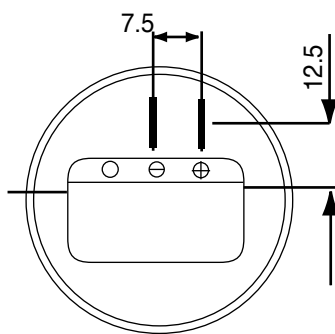


KPEG621AN
KPEG623AN

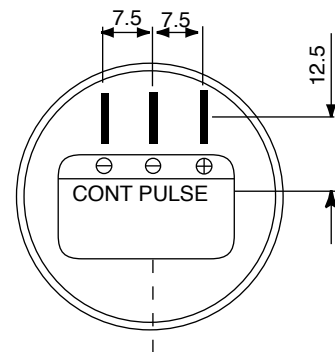
Dimension



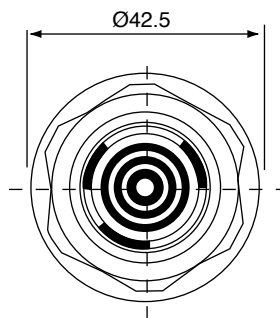
Bottom View 3



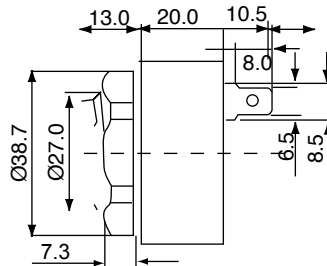
Bottom View 4



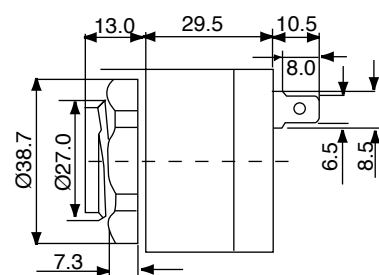
Bottom View 5



Top View



Side View D



Side View E

Tol : ±0.5 Unit : mm

Model No. (Quick disconnected tab)	Rated Frequency ±500 (Hz)	Tone	Minimum Sound Pressure Level at 30 cm		Operating Voltage Range *AC/DC Non-polar All others DC only		Current Consumption (mA)		Case Style		Packing Quantity (Pcs/Box)
			At Min V	At Max V	Min V	Max V	At Min V	At Max V	Side View	Bottom View	
KPEG650	2800	Continuous	84	97	4	28	2	22	D	3	40
KPEG651	2900	Fast Pulse	70	82	6	28	2	11	D	4	40
KPEG653	2900	Slow Pulse	71	82	6	28	2	11	D	4	40
KPEG655	2800	Continuous + Fast Pulse	76/74	88/86	6	28	4/2	16/16	D	5	40
KPEG657	2800	Continuous + Slow Pulse	78/71	92/87	6	28	3/2	18/11	D	5	40
KPEG650A	2800	Continuous	88	98	6	28	5	22	D	3	40
KPEG651A	2800	Fast Pulse	80	97	6	28	2	12	D	4	40
KPEG653A	2800	Slow Pulse	80	92	6	28	4	32	D	4	40
KPEG655A	2800	Continuous + Fast Pulse	82/76	92/86	6	28	3/2	29/26	D	5	40
KPEG657A	2800	Continuous + Fast Pulse	84/77	97/92	6	28	5/3	17/18	D	5	40
KPEG650AN	2800	Continuous	70/70	87/87	*4	28	2/1	18/12	D	3	40
KPEG651AN	2800	Fast Pulse	70/67	85/83	*6	28	5/4	23/18	D	4	40
KPEG653AN	2800	Slow Pulse	70/67	85/83	*6	28	5/4	23/18	D	4	40
KPEG610AN	2800	Continuous	79/78	90/89	*30	120	4/3	15/14	D	3	40
KPEG611AN	2800	Fast Pulse	70/68	86/84	*30	120	5/5	20/17	D	4	40
KPEG613AN	2800	Slow Pulse	70/68	86/84	*30	120	5/5	20/17	D	4	40
KPEG648	2800	Continuous	66	86	10	48	3	16	D	3	40
KPEG620AN	2800	Continuous	76/75	87/86	*60	250	1/1	18/7	E	3	40
KPEG621AN	2800	Fast Pulse	68/68	77/77	*60	250	4/4	5/5	E	4	40
KPEG623AN	2800	Slow Pulse	71/72	85/86	*60	250	3/4	14/15	E	4	40
KPEG660	1500~4000	Siren	92	99	6	15	60	160	E	3	40
KPEG680	2000~2800	Hi-Low	74	99	6	15	10	90	E	3	40

KPEG650 series fit in 1.125 inch (28.57mm) diameter opening and 0.125 inch (3.17mm) thickness panel.
Pulse Rate at 12 VDC: 3.0 ± 20% Hz (Fast pulse), 1.2 ± 20% Hz (Slow pulse).

KPEG650S SERIES



KPEG650S/651S/653S
 KPEG650SA/651SA/653SA
 KPEG650SAN/651SAN/653SAN
 KPEG610SAN/611SAN/613SAN
 KPEG648S

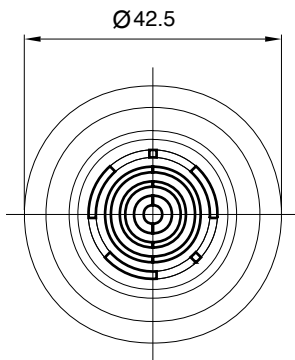


KPEG655S/657S
 KPEG655SA/657SA

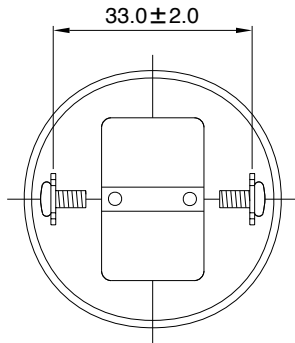


KPEG620SAN/621SAN/623SAN
 KPEG660S/680S

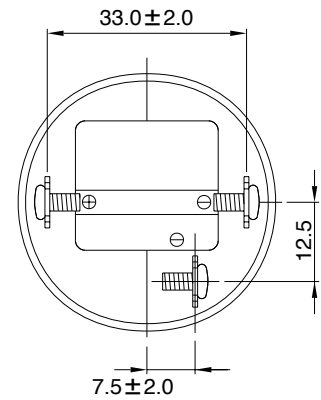
Dimension



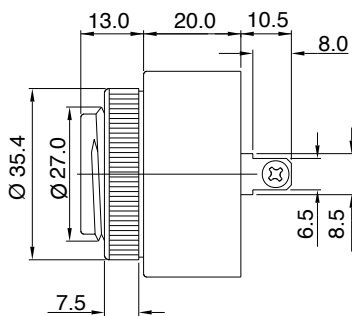
Top View



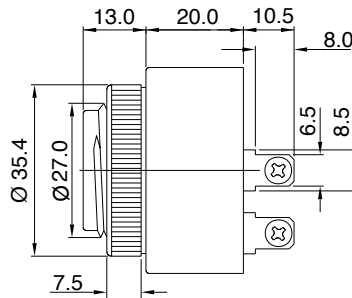
Bottom View 1



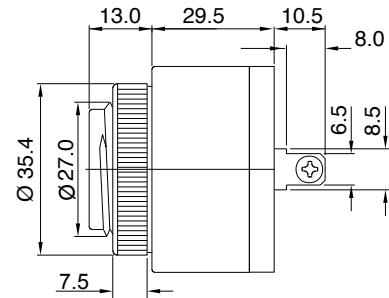
Bottom View 2



Side View A



Side View B



Side View C

Tol : ±0.5 Unit : mm

Model No. (with tin-plated tapped screw)	Rated Frequency ±500 (Hz)	Tone	Minimum Sound Pressure Level at 30 cm		Operating Voltage Range *AC/DC Non-polar All others DC only		Current Consumption (mA)		Case Style		Packing Quantity (Pcs/Box)
			At Min V	At Max V	Min V	Max V	At Min V	At Max V	Side View	Bottom View	
KPEG650S	2,800	Continuous	84	98	4	28	2	22	A	1	40
KPEG651S	2,900	Fast Pulse	70	82	6	28	2	11	A	1	40
KPEG653S	2,900	Slow Pulse	70	83	6	28	2	11	A	1	40
KPEG655S	2,900	Continuous+ Fast Pulse	77/74	87/86	6	28	4/2	17/17	B	2	40
KPEG657S	2,800	Continuous+ Slow Pulse	78/71	91/87	6	28	3/2	18/16	B	2	40
KPEG650SA	2,800	Continuous	88	98	6	28	5	22	A	1	40
KPEG651SA	2,800	Fast Pulse	80	97	6	28	2	12	A	1	40
KPEG653SA	2,800	Slow Pulse	80	93	6	28	4	32	A	1	40
KPEG655SA	2,800	Continuous+ Fast Pulse	82/76	92/86	6	28	3/2	28/26	B	2	40
KPEG657SA	2,800	Continuous+ Slow Pulse	84/76	97/91	6	28	5/3	18/18	B	2	40
KPEG650SAN	2,800	Continuous	70/69	87/86	*4	28	2/1	18/12	A	1	40
KPEG651SAN	2,800	Fast Pulse	69/67	85/78	*6	28	5/4	23/18	A	1	40
KPEG653SAN	2,800	Slow Pulse	69/67	85/83	*6	28	5/4	23/18	A	1	40
KPEG610SAN	2,800	Continuous	79/78	90/89	*30	120	4/3	15/14	D	1	40
KPEG611SAN	2,800	Fast Pulse	69/67	85/84	*30	120	5/5	20/17	A	1	40
KPEG613SAN	2,800	Slow Pulse	69/67	86/84	*30	120	5/5	20/16	A	1	40
KPEG648S	2,800	Continuous	66	86	10	48	3	16	A	1	40
KPEG620SAN	2,800	Continuous	76/78	87/86	*60	250	2/1	18/17	C	1	40
KPEG621SAN	2,800	Fast Pulse	68/68	77/77	*60	250	3/3	15/15	C	1	40
KPEG623SAN	2,800	Slow Pulse	68/67	86/84	*60	250	4/3	16/4	C	1	40
KPEG660S	1500~4000	Siren	92	99	6	15	60	100	C	1	40
KPEG680S	2000~2800	Hi-Low	86	96	6	15	10	65	C	1	40

KPEG650S series fit in 1.125 inch (28.57mm) diameter opening and 0.125 inch (3.17mm) thickness panel.
Pulse Rate at 12 VDC: 3.0 ± 20% Hz (Fast pulse), 1.2 ± 20% Hz (Slow pulse).

KPEG750 SERIES



KPEG750
KPEG750A

KPEG751
KPEG753

KPEG755
KPEG757

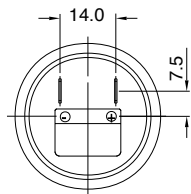
KPEG750S/751S
KPEG753S/750SA

KPEG755S
KPEG757S

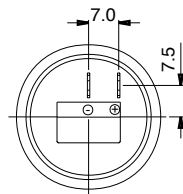
KPEG750P/751P
KPEG750PA

KPEG755P
KPEG757P

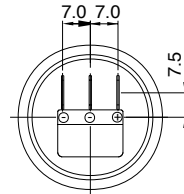
Dimension



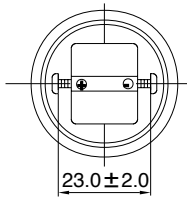
Bottom View 6



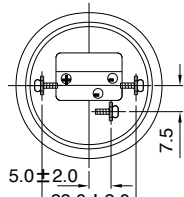
Bottom View 7



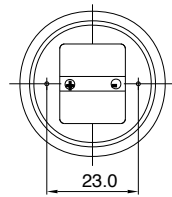
Bottom View 8



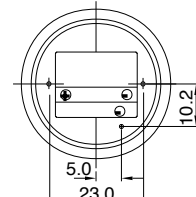
Bottom View 9



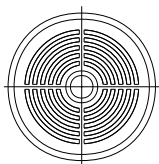
Bottom View 10



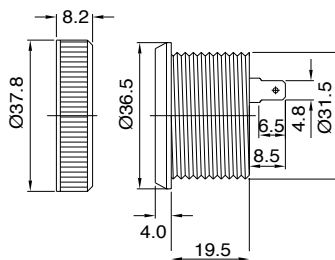
Bottom View 11



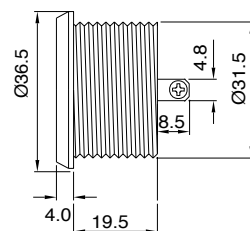
Bottom View 12



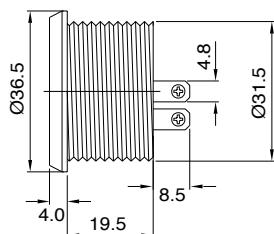
Top View



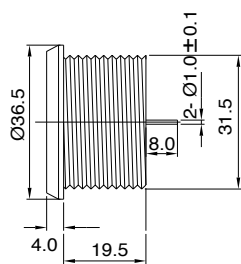
Side View F



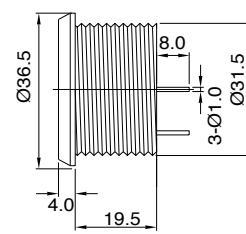
Side View G



Side View H



Side View I



Side View J

Tol : ±0.5 Unit : mm

Model No.	Rated Frequency ±500 (Hz)	Tone	Minimum Sound Pressure Level at 30 cm		Operating Voltage Range (VDC)		Current Consumption (mA)		Case Style		Packing Quantity (Pcs/Box)
			At Min V	At Max V	Min V	Max V	At Min V	At Max V	Side View	Bottom View	
KPEG750	3,600	Continuous	70	85	4	28	2	15	F	6	50
KPEG751	3,600	Fast Pulse	72	87	6	28	1	14	F	7	50
KPEG753	3,600	Slow Pulse	76	92	6	28	2	17	F	7	50
KPEG755	3,600	Continuous+ Slow Pulse	80/75	97/87	6	28	3/2	15/13	F	8	50
KPEG757	3,600	Continuous+ Slow Pulse	78/75	88/87	6	28	3/3	16/14	F	8	50
KPEG750S	3,600	Continuous	70	86	4	28	2	16	G	9	50
KPEG751S	3,600	Fast Pulse	72	87	6	28	1	14	G	9	50
KPEG753S	3,600	Slow Pulse	76	92	6	28	2	17	G	9	50
KPEG755S	3,600	Continuous+ Fast Pulse	79/75	92/87	6	28	3/2	16/13	H	10	50
KPEG757S	3,600	Continuous+ Slow Pulse	78/75	88/87	6	28	3/3	16/14	H	10	50
KPEG750P	3,600	Continuous	72	88	4	28	1	15	I	11	50
KPEG751P	3,600	Fast Pulse	72	87	6	28	1	14	I	11	50
KPEG755P	3,600	Continuous+ Fast Pulse	80/75	92/87	6	28	3/2	15/14	J	12	50
KPEG757P	3,600	Continuous+ Slow Pulse	78/75	88/87	6	28	3/3	15/14	J	12	50
KPEG750A	3,600	Continuous	76	101	0.7	15	1	14	F	6	50
KPEG750SA	3,600	Continuous	76	101	0.7	15	1	14	G	9	50
KPEG750PA	3,600	Continuous	76	101	0.7	15	1	14	I	11	50

KPEG750 series fit in 1.125 inch (28.57mm) diameter opening and 0.5 inch (12.7mm) thickness panel.
Pulse Rate at 12 VDC: 3.0 ± 20% Hz (Fast pulse), 1.2 ± 20% Hz (Slow pulse).

Panel Mounting Type-UL Series

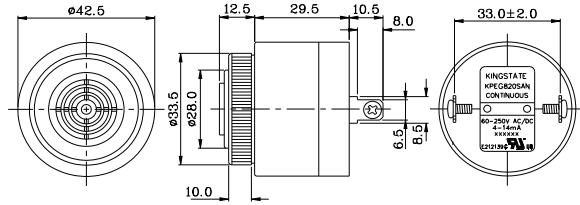
A

Piezo Buzzer

KPEG850S SERIES



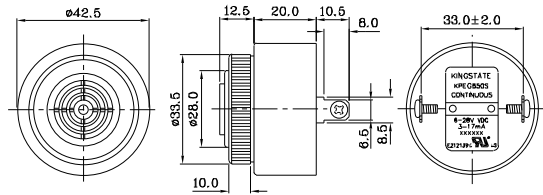
Dimension



Tol : ±0.5 Unit : mm

Model No. (with tin-plated tapped screw)	Resonant Frequency ±500(Hz)	Operating Voltage *AC/DC Non-polar All others DC only	Max. Current Consumption (mA)		Min. Sound Pressure Level at 60cm (dB)		Tone	Mounting Method	Loudness Category
			At Min V	At Max V	Min V	Max V			
KPEG820SAN	2800	*60-250V	6	25	68	80	Continuous	Panel	Medium
KPEG821SAN	2800	*60-250V	6	25	68	78	Fast Pulse	Panel	Medium
KPEG823SAN	2800	*60-250V	5	25	68	80	Slow Pulse	Panel	Medium

Dimension



Tol : ±0.5 Unit : mm

Model No. (with tin-plated tapped screw)	Resonant Frequency ±500(Hz)	Operating Voltage *AC/DC Non-polar All others DC only	Max. Current Consumption (mA)		Min. Sound Pressure Level at 60cm (dB)		Tone	Mounting Method	Loudness Category
			At Min V	At Max V	Min V	Max V			
KPEG848S	2800	10-48V	2.5	11	68	80	Continuous	Panel	Medium
KPEG850S	2800	6-28V	4	22	68	80	Continuous	Panel	Medium
KPEG851S	2800	6-28V	2	15	68	80	Fast Pulse	Panel	Medium
KPEG853S	2800	6-28V	3	30	68	80	Slow Pulse	Panel	Medium
KPEG810SAN	2800	* 30-120V	5	25	68	80	Continuous	Panel	Medium
KPEG811SAN	2800	* 30-120V	6	25	68	80	Fast Pulse	Panel	Medium
KPEG813SAN	2800	* 30-120V	6	25	68	80	Slow Pulse	Panel	Medium
KPEG850SAN	2800	* 6-28V	5	22	68	80	Continuous	Panel	Medium
KPEG851SAN	2800	* 6-28V	5	26	68	80	Fast Pulse	Panel	Medium
KPEG853SAN	2800	* 6-28V	5	28	68	84	Slow Pulse	Panel	Medium
KPEG850SH	2900	7-18V	8	32	80	95	Continuous	Panel	Loud
KPEG851SH	2900	7-18V	8	32	80	95	Fast Pulse	Panel	Loud
KPEG853SH	2900	7-18V	8	32	80	95	Slow Pulse	Panel	Loud
KPEG848SD	1900	10-48V	8	29	60	75	Continuous	Panel	Medium
KPEG850SD	1900	6-28V	8	29	60	75	Continuous	Panel	Medium
KPEG810SAND	1900	* 30-120V	8	29	60	75	Continuous	Panel	Medium
KPEG850SCP	2900	6-16V	4	12	68	78	Chime	Panel	Medium

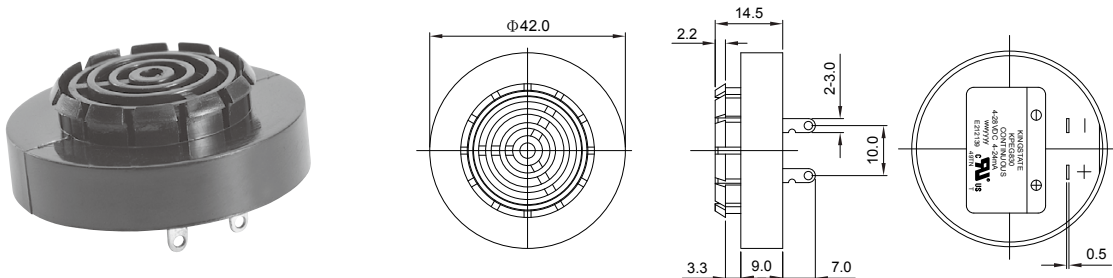
KPEG850 series fit in 1.125 inch (28.57mm) diameter opening and 0.125 inch (3.17mm) thickness panel.

Pulse Rate at 12 VDC: 3.0 ± 20% Hz (Fast pulse), 1.2 ± 20% Hz (Slow pulse).

Piezo Audio Indicator



Dimension



Tol : ±0.5 Unit : mm

Model No. (with pc pins)	Resonant Frequency 500(Hz)	Operating Voltage	Current Consumption (mA)		Sound Pressure Level at 60cm (dB)		Tone	Mounting Method	Loudness Category
			At Min V	At Max V	Min V	Max V			
KPEG830	2900	4-28V	4	24	65	75	Continuous	Snap-in Panel	Medium
KPEG831	2900	6-16V	4	13	65	75	Fast Pulse	Snap-in Panel	Medium
KPEG833	2900	6-16V	4	13	65	75	Slow Pulse	Snap-in Panel	Medium

Volume Controllable



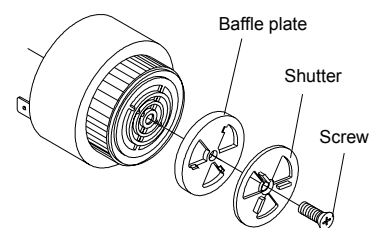
This volume control offers variable attenuation from 0 to 10 dB typically from sound pressure level shown in the specification. It can be assembled with any KPEG810, 820, 840, 850S series and an abbreviation "R" will be added on the model number to distinguish.

Features:

- Volume Controllable
- Various types of tones are available
- Case made from nylon UL-94V-0

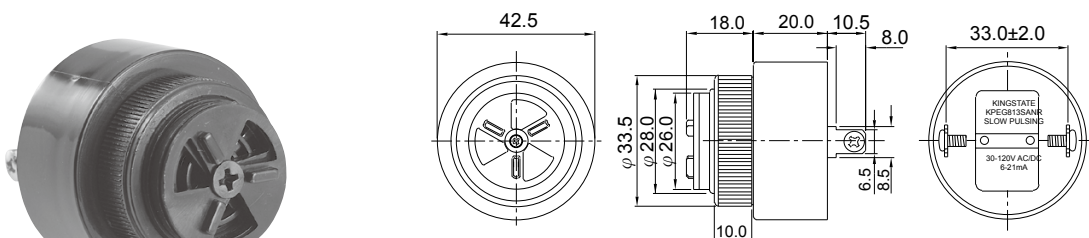
Application:

- Medical Equipment
- Automatic Control System
- Transportation Control
- Automobile



Anatomization process

Dimension



Sample of Piezo Audio Indicator with Volume control-KPEG813SANR

Tol : ±0.5 Unit : mm

*KPEG813SANR conforms to the UL E212139.

PIEZO SOUNDER

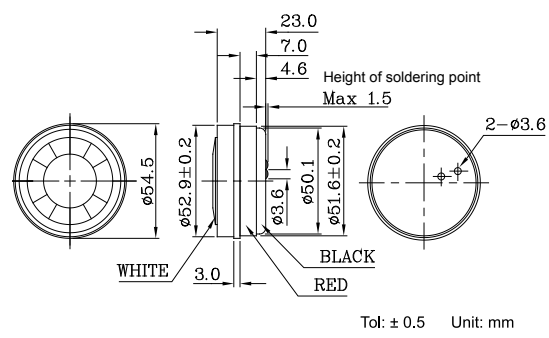
A

Piezo Buzzer

KPEG1600NC

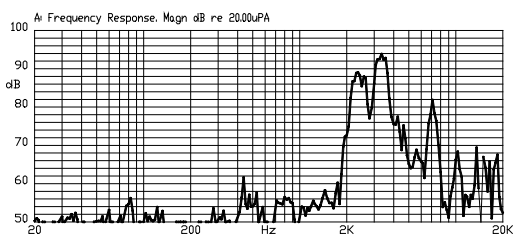


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



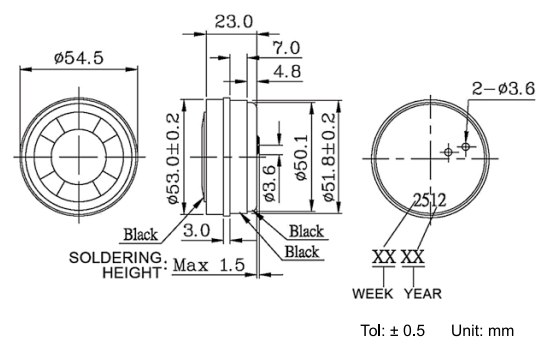
Operating Volt. Range (Vp-p)	Max. 150
Current Consumption (mA)	Max. 30@90Vp-p, Sine Wave, 3.5KHz
Sound Pressure Level (dB)	Min. 95@100cm/90Vp-p, Sine Wave, 3.5KHz
Electrostatic Capacity (pF)	30,000 ± 30%@1KHz/0.25V
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ54.5xH23.0
Material	ABS UL-94 1/16" HB

PIEZO SOUNDER

KPEG1600NCB

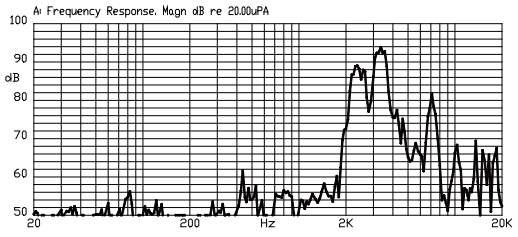


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



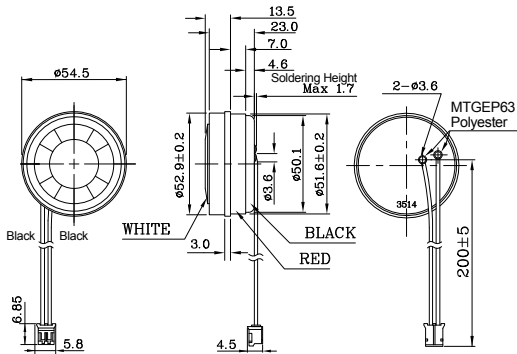
Operating Volt. Range (Vp-p)	Max. 150
Current Consumption (mA)	Max. 30@90Vp-p, Sine Wave, 3.5KHz
Sound Pressure Level (dB)	Min. 95@100cm/90Vp-p, Sine Wave, 3.5KHz
Electrostatic Capacity (pF)	30,000 ± 30%@1KHz/0.25V
Operating Temperature (°C)	-20 ~ +60
Storage Temperature (°C)	-30 ~ +70
Dimension (mm)	Φ54.5xH23.0
Material	ABS UL-94 1/16" HB

PIEZO SOUNDER

KPEGA1600NCW200A



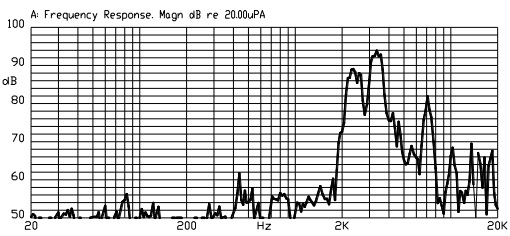
Dimension



Tol: ± 0.5 Unit: mm

Operating Volt. Range (Vp-p)	Max. 150
Current Consumption (mA)	Max. 30@90Vp-p, Sine Wave, 3.5KHz
Sound Pressure Level (dB)	Min. 95@100cm/90Vp-p, Sine Wave, 3.5KHz
Electrostatic Capacity (pF)	30,000 \pm 30%@1KHz/0.25V
Operating Temperature ($^{\circ}$ C)	-20 ~ +60
Storage Temperature ($^{\circ}$ C)	-30 ~ +70
Dimension (mm)	$\phi 54.5 \times H23.0$
Material	ABS UL-94 1/16" HB

Characteristic

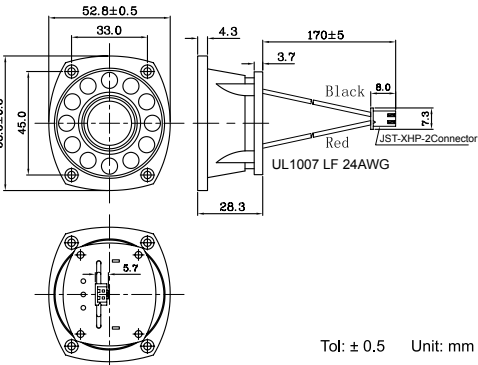


PIEZO SOUNDER

KPEG1500NC



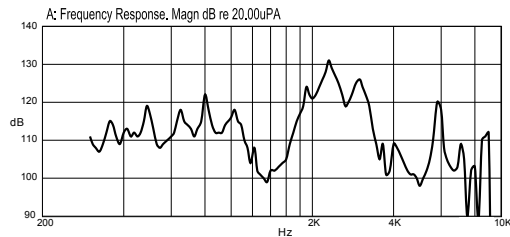
Dimension



Tol: ± 0.5 Unit: mm

Operating Volt. Range (Vp-p)	3 ~ 85
Current Consumption (mA)	Max. 90@85Vp-p, Square wave, 2.7K
Sound Pressure Level (dB)	Min. 103 (Typical 108)@30cm
Electrostatic Capacity (pF)	35,000 \pm 30%@120Hz
Operating Temperature ($^{\circ}$ C)	-20 ~ +70
Storage Temperature ($^{\circ}$ C)	-30 ~ +85
Dimension (mm)	$\phi 58.5 \times H28.3$
Material	ABS (Black)

Characteristic



PIEZO SIREN

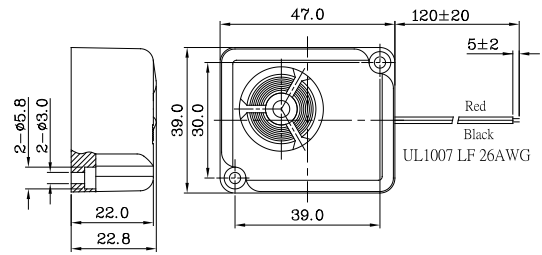
A

Piezo Buzzer

KPEG1501

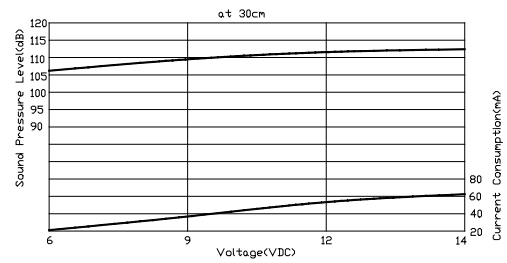


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



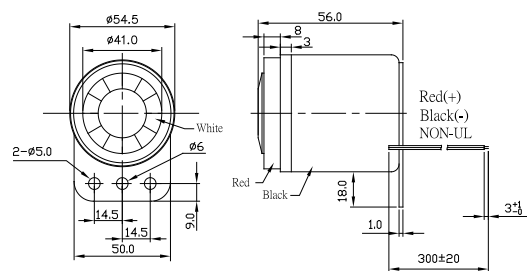
Rated Frequency (Hz)	2,000 ~ 3,500
Operating Voltage Range (VDC)	6 ~ 14
Current Consumption (mA)	Max. 70@12VDC
Sound Pressure Level (dB)	Min. 102@30cm/12VDC
Operating Temperature(°C)	-10 ~ +60
Storage Temperature(°C)	-40 ~ +80
Dimension (mm)	L39.0xW47.0xH22.8
Tone	Siren
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

PIEZO SIREN

KPEG1600

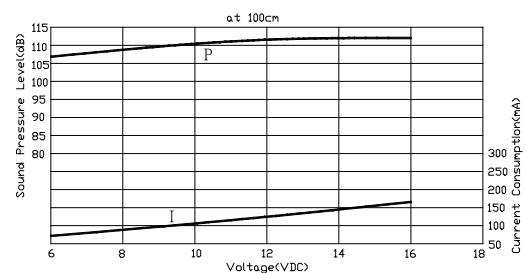


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



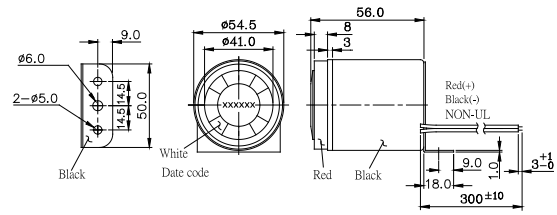
Rated Frequency (Hz)	2,000 ~ 4000
Operating Voltage Range (VDC)	6 ~ 16
Current Consumption (mA)	Max. 260@12VDC
Sound Pressure Level (dB)	Min. 105@100cm/12VDC
Operating Temperature(°C)	-20 ~ + 60
Storage Temperature(°C)	-30 ~ + 70
Dimension (mm)	Φ54.5xH56.0
Tone	Siren
Material	ABS UL-94 1/16" HB

PIEZO SIREN

KPEG1600L

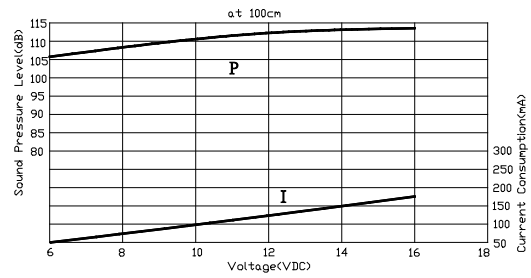


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	2,000 ~ 4000
Operating Voltage Range (VDC)	6 ~ 16
Current Consumption (mA)	Max. 260@12VDC
Sound Pressure Level (dB)	Min. 105@100cm/12VDC
Operating Temperature(°C)	-20 ~ +60
Storage Temperature(°C)	-30 ~ +70
Dimension (mm)	Φ54.5xH56.0
Tone	Siren
Material	ABS UL-94 1/16" HB (Black)

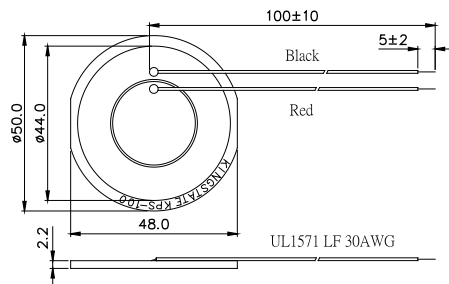
Wire Type

PIEZO SPEAKER

KPSG100

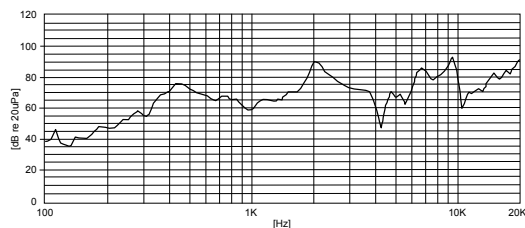


Dimension



Tol: ± 0.5 Unit: mm

Characteristic



Rated Frequency (Hz)	1,200 ± 200
Operating Volt. Range (V-pp)	Max. 30
Electrostatic Capacity (pF)	65,000 ± 30%@120Hz/1V
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-20 ~ +70
Dimension (mm)	Φ50.0 x H 2.2
Material	PIEZOELECTRO BUZZER ELEMENT:BRASS CASE:ABS UL-94 1/16" HB (Black)

PIEZO TWEETER

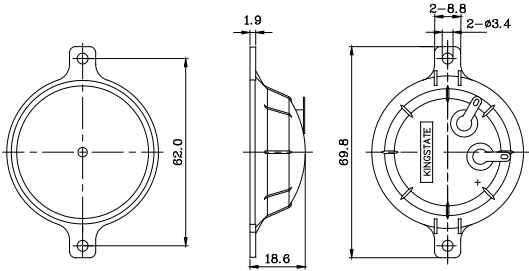
A

Piezo Buzzer

KPNG1020



Dimension



Tol: ± 0.5 Unit: mm

Characteristic

Operating Frequency (Hz)	6,000 ~ 40,000
Sound Pressure Level (dB)	Min. 86@2.832Vrms sine wave/100cm 5,6,8,10KHz-AVG
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-40 ~ +95
Dimension (mm)	Φ69.8xH18.6
Material	ABS UL-94 1/16" HB HIGH HEAT (Black)

