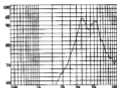


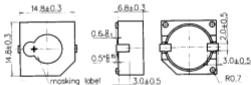
XYT14



FREQUENCY RESPONSE



DIMENSIONS Unit:mm



SPECIFICATIONS

Type	XYT14
Rated Voltage (V _r) Square Wave	12
Operating Voltage (V _o)	1-20
Rated Current (mA)	<3
Capacitance at 120Hz (pF)	1500±30%
Sound Output at 5000Hz, 10cm (dB)	>85
Resonant Frequency (Hz)	3000±500
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Weight (g)	2

◆ value applying at rated voltage

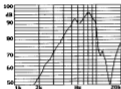
XY12 SERIES



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

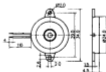
Type	XY12
Rated Voltage (Vp-p) Square Wave	15
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	< 8
Capacitance at 120Hz (pF)	1800±10%
Sound Output at 5500Hz, 10cm (dB)	> 90
Resonant Frequency (Hz)	5500±700
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+80
Weight (g)	1.9

◆Value applying at rated voltage

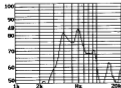
XY12C



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

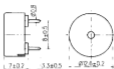
Type	XY12C
Rated Voltage (Vp-p) Square Wave	10
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	< 5
Capacitance at 120Hz (pF)	1700±10%
Sound Output at 40Hz, 10cm (dB)	> 80
Resonant Frequency (Hz)	4300±500
Operating Temperature (°C)	-25~+70
Storage Temperature (°C)	-30~+80
Weight (g)	2

◆Value applying at rated voltage

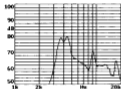
XY13



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY13
Rated Voltage (V _r p, Square Wave)	3
Operating Voltage (V _o p)	1-30
Rated Current (mA)	< 1
Capacitance at 120Hz (pF)	12000±30%
Sound Output at 40Hz, 10cm (dB)	≥ 70
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+75
Weight (g)	1

◆Value applying at rated voltage.

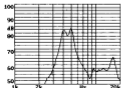
XY14



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY14
Rated Voltage (V _r p, Square Wave)	5
Operating Voltage (V _o p)	1-20
Rated Current (mA)	< 1
Capacitance at 100Hz (pF)	15000±30%
Sound Output at 400Hz, 10cm (dB)	≥ 80
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+85
Weight (g)	1

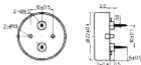
◆Value applying at rated voltage.

PIEZO CERAMIC TRANSDUCER

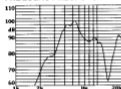
XY20B



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

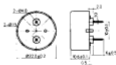
Type	XY20B
Rated Voltage (V _{r.p.} , Square Wave)	15
Operating Voltage (V _{o.p.})	1-30
Rated Current (mA)	< 3
Capacitance (pF)	15000±30%
Sound Output at 40Hz, 10cm (dB)	> 85
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +60
Weight (g)	2.5

◆ Value applying at rated voltage

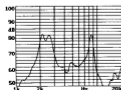
XY20C



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

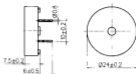
Type	XY20C
Rated Voltage (V _{r.p.} , Square Wave)	3
Operating Voltage (V _{o.p.})	1-30
Rated Current (mA)	< 1
Capacitance (pF)	15000±30%
Sound Output at 2000Hz, 10cm (dB)	> 75
Resonant Frequency (Hz)	2000±500
Operating Temperature (°C)	-20 ~ +65
Storage Temperature (°C)	-30 ~ +95
Weight (g)	3

◆ Value applying at rated voltage

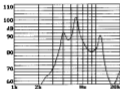
XY20K



DIMENSIONS (Unit:mm)



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY20K
Rated Voltage (Vp-p, Square Wave)	5
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	< 1
Capacitance (pF)	18000±30%
Sound Output at 40Hz, 10cm (dB)	> 90
Resonant Frequency (Hz)	8000±500
Operating Temperature (°C)	-30~+70
Storage Temperature (°C)	-30~+80
Weight (g)	3

◆value applying at rated voltage.

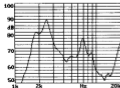
XY22



DIMENSIONS (Unit:mm)



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY22
Rated Voltage (Vp-p) Square Wave	3
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	< 1
Capacitance at 100Hz (pF)	18000±30%
Sound Output at 2000Hz, 10cm (dB)	> 70
Resonant Frequency (Hz)	2000±500
Operating Temperature (°C)	-30~+70
Storage Temperature (°C)	-30~+80
Weight (g)	2

◆value applying at rated voltage.

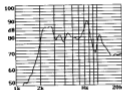
XY22A



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY22A
Rated Voltage (Vp-p, Square Wave)	10
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	4.3
Capacitance at 100Hz (pF)	10000±30%
Sound Output at 2500Hz, 10cm (dB)	> 80
Resonant Frequency (Hz)	2500±500
Operating Temperature (°C)	-20~+65
Storage Temperature (°C)	-30~+90
Weight (g)	1.5

●Value applying at rated voltage.

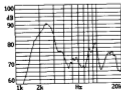
XY23



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

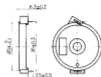
Type	XY23
Rated Voltage (Vp-p, Square Wave)	10
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	4.3
Capacitance 100Hz (pF)	24000±30%
Sound Output at 2048Hz, 10cm (dB)	> 85
Resonant Frequency (Hz)	2048±500
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+90
Weight (g)	2

●Value applying at rated voltage.

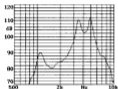
XY34



DIMENSIONS (mm)



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY34
Rated Voltage (V _{pp} , Square Wave)	10
Operating Voltage (V _{pp})	1-30
Rated Current (mA)	<3
Capacitance 120Hz (pF)	40000±30%
Sound Output at 10cm, 10cm (dB)	>85
Resonant Frequency (Hz)	1000±300
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+80
Weight (g)	4

◆ Value applying at rated voltage

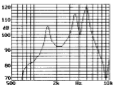
XY35



DIMENSIONS (mm)



FREQUENCY RESPONSE



SPECIFICATIONS

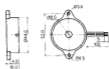
Type	XY35
Rated Voltage (V _{pp} , Square Wave)	10
Operating Voltage (V _{pp})	1-30
Rated Current (mA)	<3
Capacitance 120Hz (pF)	50000±30%
Sound Output at 1.18Hz, 10cm (dB)	>85
Resonant Frequency (Hz)	1100±500
Operating Temperature (°C)	-20~+80
Storage Temperature (°C)	-30~+80
Weight (g)	5

◆ Value applying at rated voltage

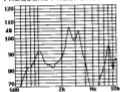
XY44



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY44
Rated Voltage (Vp-p, Square Wave)	12
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	4.5
Capacitance 100Hz (pF)	80000±30%
Sound Output at 1kHz, 10cm (dB)	>85
Resonant Frequency (Hz)	1000±30
Operating Temperature (°C)	-30~+60
Storage Temperature (°C)	-30~+70
Weight (g)	12

◆Value applying at rated voltage

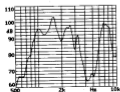
XY44A



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY44A
Rated Voltage (Vp-p, Square Wave)	10
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	4.5
Capacitance 100Hz (pF)	80000±30%
Sound Output at 1kHz, 10cm (dB)	>85
Resonant Frequency (Hz)	1000±30
Operating Temperature (°C)	-40~+55
Storage Temperature (°C)	-40~+65
Weight (g)	12

◆Value applying at rated voltage

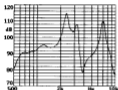
XY44D



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

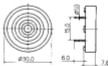
Type	XY44D
Rated Voltage (Vp-p, Square Wave)	12
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	<3
Capacitance 100Hz (pF)	80000±30%
Sound Output at 1kHz, 10cm (dB)	>85
Resonant Frequency (Hz)	1000±300
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Weight (g)	10

◆ Value applying at rated voltage.

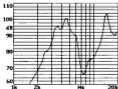
XY132



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY132
Rated Voltage (Vp-p, Square Wave)	5
Operating Voltage (Vp-p)	1-30
Rated Current (mA)	<3
Capacitance 100Hz (pF)	30000±30%
Sound Output at 4800Hz, 10cm (dB)	>90
Resonant Frequency (Hz)	4800±600
Operating Temperature (°C)	-20 ~ +85
Storage Temperature (°C)	-20 ~ +80
Weight (g)	5

◆ Value applying at rated voltage.

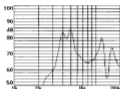
XY150



DIMENSIONS Unit: mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY150
Rated Voltage (V _{p-p} , Square Wave)	5
Operating Voltage (V _{p-p})	1-30
Rated Current (mA)	< 1
Capacitance (100Hz (pF))	15000±30%
Sound Output at 4000Hz (10cm (dB))	> 78
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	1

● Make applying at rated voltage.

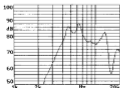
XY152



DIMENSIONS Unit: mm



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY152
Rated Voltage (V _{p-p} , Square Wave)	5
Operating Voltage (V _{p-p})	1-30
Rated Current (mA)	< 1
Capacitance (100Hz (pF))	10000±30%
Sound Output at 4000Hz (10cm (dB))	> 78
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	1

● Make applying at rated voltage.

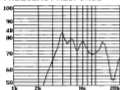
XY153



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



SPECIFICATIONS

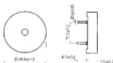
Type	XY153
Rated Voltage (V _r p-p, Square Wave)	5
Operating Voltage (V _o -p)	1-30
Rated Current (mA)	< 1
Capacitance 120Hz (pF)	15000±30%
Sound Output at 4000Hz, 10cm (dB)	≥ 78
Resonant Frequency (Hz)	4000±500
Operating Temperature (°C)	-20~+80
Storage Temperature (°C)	-30~+70
Weight (g)	1

●Value applying at rated voltage.

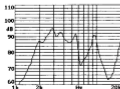
XY1130



DIMENSIONS Unit:mm



FREQUENCY RESPONSE



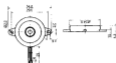
SPECIFICATIONS

Type	XY1130
Rated Voltage (V _r p-p, Square Wave)	10
Operating Voltage (V _o -p)	1-30
Rated Current (mA)	< 5
Capacitance 120Hz (pF)	30000±30%
Sound Output at 2800Hz, 10cm (dB)	≥ 90
Resonant Frequency (Hz)	2800±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	5

●Value applying at rated voltage.

XY12B

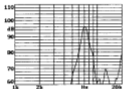
DIMENSIONS unit:mm



TEST CIRCUIT



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY12B
Rated Voltage (V _r)	12
Operating Voltage (V _o)	3-20
Rated Current (mA)	< 12
Capacitance 120Hz (pF)	10000±30%
Sound Output at 10cm (dB)	> 85
Resonant Frequency (Hz)	8500±500
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+80
Weight (g)	1

◆Value applying at rated voltage.

XY24B

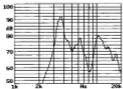
DIMENSIONS unit:mm



TEST CIRCUIT



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY24B
Rated Voltage (V _r)	12
Operating Voltage (V _o)	3-20
Rated Current (mA)	< 12
Capacitance 120Hz (pF)	10000±30%
Sound Output at 15cm (dB)	> 80
Resonant Frequency (Hz)	3800±400
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+80
Weight (g)	3

◆Value applying at rated voltage.

XY23K, XY33K

DIMENSIONS Unit:mm

TEST CIRCUIT



Type	XY23K	XY33K
H	12.7	16.7
h	7.5	8
Ø	28.5	33.5

FREQUENCY RESPONSE



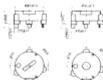
SPECIFICATIONS

Type	XY23K	XY33K
Rated Voltage (V _{dc})	10	
Operating Voltage (V _o)	3-20	
Rated Current (I _o), (mA)	< 0	
Capacitance (100Hz) (pF)	15000±30%	
Sound Output at 10cm (dB)	≥ 85	≥ 85
Resonant Frequency (Hz)	3500	4.2500
Frequency Range (Hz)	1800-4500	1900-5000
Operating Temperature (°C)	-20 ~ +70	
Storage Temperature (°C)	-20 ~ +80	
Weight (g)	0.2	7.8

● Value applying at rated voltage.

XY39

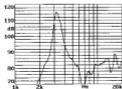
DIMENSIONS Unit:mm



TEST CIRCUIT



FREQUENCY RESPONSE



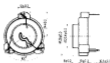
SPECIFICATIONS

Type	XY39
Rated Voltage (V _{dc})	5
Operating Voltage (V _o)	4.5-15
Rated Current (mA)	< 15
Capacitance (100Hz) (pF)	25000±30%
Sound Output at 30cm (dB)	≥ 95
Resonant Frequency (Hz)	3480±50
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-40 ~ +80
Weight (g)	12.5

● Value applying at rated voltage.

XY44B

DIMENSIONS Unit:mm

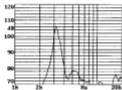


TEST CIRCUIT



Q29303 or equivalent
D29308 or equivalent

FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY44B
Rated Voltage (V _r)	12
Operating Voltage (V _o)	6-25
Rated Current (mA)	<10
Capacitance 120Hz (pF)	25000±30%
Sound Output at 10cm (dB)	≥135
Resonant Frequency (Hz)	3200±500
Operating Temperature (°C)	-10~+60
Storage Temperature (°C)	-25~+70
Weight (g)	8

◆Value applying at rated voltage.

XY1172

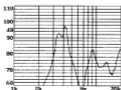
DIMENSIONS Unit:mm



TEST CIRCUIT



FREQUENCY RESPONSE



SPECIFICATIONS

Type	XY1172
Rated Voltage (V _r)	12
Operating Voltage (V _o)	3-20
Rated Current (mA)	<10
Capacitance 120Hz (pF)	18000±30%
Sound Output at 10cm (dB)	≥98
Resonant Frequency (Hz)	3800±500
Operating Temperature (°C)	-25~+60
Storage Temperature (°C)	-25~+70
Weight (g)	5

◆Value applying at rated voltage.

SPECIFICATIONS

Type	FY14	FY14A
Rated Voltage (V)	12	
Operating Voltage (V)	3-10	
Rated Current (mA)	< 7	< 10
Sound Output at 10cm (dB)	> 90	> 85
Resonant Frequency (Hz)	4800±500	4800±400
Operating Temperature (°C)	-20 ~ +70	
Storage Temperature (°C)	-30 ~ +80	
Weight (g)	1	

◆ Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY24	FY24A
Rated Voltage (V)	12	
Operating Voltage (V)	3-20	
Rated Current (mA)	< 15	< 18
Sound Output at 10cm (dB)	> 95	> 95
Resonant Frequency (Hz)	3400±500	
Operating Temperature (°C)	-20 ~ +70	
Storage Temperature (°C)	-30 ~ +80	
Weight (g)	3	

◆ Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY30
Rated Voltage (V)	12
Operating Voltage (V)	3-20
Rated Current 1F (DC) (mA)	< 10
Sound Output at 10cm (dB)	> 90
Resonant Frequency (Hz)	3600±500
Operating Temperature (°C)	-30 ~ +85
Storage Temperature (°C)	-30 ~ +85
Weight (g)	8

◆ Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY50
Rated Voltage (V)	12
Operating Voltage (V)	5-15
Rated Current (mA)	< 7.5
Sound Output at 20cm (dB)	> 108
Resonant Frequency (Hz)	2500±500
Operating Temperature (°C)	-20 ~ +80
Storage Temperature (°C)	-30 ~ +70
Weight (g)	31

◆ Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY25K
Rated Voltage (V _r)	8
Operating Voltage (V _o)	3-12
Rated Current at BVDC (mA)	4.10
Sound Pressure Level (BVDC/30cm) (dB)	> 95
Oscillating Frequency (Hz)	2800±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	38

◆Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY252K
Rated Voltage (V)	12
Operating Voltage (V)	3-18
Rated Current (mA)	4.5
Sound Output at 30cm (dB)	> 90
Resonant Frequency (Hz)	3700±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	8

◆Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY251
Rated Voltage (V)	12
Operating Voltage (V)	3-28
Rated Current (mA)	4.8
Sound Output at 30cm (dB)	> 95
Resonant Frequency (Hz)	4500±500
Operating Temperature (°C)	-20~+70
Storage Temperature (°C)	-30~+80
Weight (g)	4

◆Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY254K/FY254KS
Rated Voltage (V)	12
Operating Voltage (V)	3-20
Rated Current (mA)	4.8
Sound Output at 30cm (dB)	> 90
Resonant Frequency (Hz)	3700±500
Operating Temperature (°C)	-20~+60
Storage Temperature (°C)	-30~+70
Weight (g)	5

◆Value applying at rated voltage (DC)



SPECIFICATIONS

Type	FY600K
Rated Voltage (V _r)	12
Operating Voltage (V _o)	3-24
Rated Current 12VDC (mA)	< 8
Sound Output at 30cm (dB)	> 90
Resonant Frequency (Hz)	2800±500
Operating Temperature (°C)	-20~+80
Storage Temperature (°C)	-30~+70
Weight (g)	11

● Value applying at rated voltage (DC).



SPECIFICATIONS

Type	FY430	FY435	FY435
Rated Voltage (V _r)	12		
Operating Voltage (V _o)	3-24		3-24
Rated Current 12VDC (mA)	< 7		< 10
Sound Output at 30cm (dB)	> 90	> 100	> 90
Resonant Frequency (Hz)	2000±500		
Operating Temperature (°C)	-20~+80		
Storage Temperature (°C)	-30~+70		
Weight (g)	17		

● Value applying at rated voltage (DC).



SPECIFICATIONS

Type	FY500K	FY500K3	FY500KAS
Rated Voltage (V _r)	12		
Operating Voltage (V _o)	3-20		
Rated Current 12VDC (mA)	< 8		< 10
Sound Output at 30cm (dB)	> 85		> 90
Resonant Frequency (Hz)	2800±500		
Operating Temperature (°C)	-20~+80	-40~+85	-20~+80
Storage Temperature (°C)	-30~+70	-40~+85	-30~+70
Weight (g)	5		

● Value applying at rated voltage (DC).



FY960/980



DIMENSIONS Unit:mm



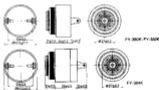
SPECIFICATIONS

Parameter	Condition	FY 960	FY 980
Supply Voltage (VDC)	V ₀ <0.2V	1.5-1.8	6-15
	V ₀ >0.2V	14.0	
Supply Current (mA)	V ₀ <7.5V		30.0
	V ₀ >7.5V	30.0	100.0
	V ₀ >3.0V		
Fundamental Frequency (Hz)	V ₀ <7.5V	2500	2500
	V ₀ >7.5V		
	V ₀ >3.0V	80	
	V ₀ >7.5V		94
Sound Pressure Level At 10cm or 1m (dB)	V ₀ <7.5V	80	94
	V ₀ >7.5V	80	94
Operating Temperature (°C)	Operating Temperature (°C)	-30~+80	-30~+80
Storage Temperature (°C)	Storage Temperature (°C)	-30~+15	-30~+15
Minimum Design Life (hr)		1000	1000

FY380K/381K/381KP /382K/384K



DIMENSIONS Unit:mm



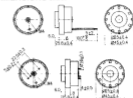
SPECIFICATIONS

Parameter	Condition	FY 380K	FY 381K	FY 381KP	FY 382K	FY 384K
Supply Voltage (VDC, VAC/50C)	V ₀ <0.2V	4-20			30-150	60-250
	V ₀ >0.2V	<4				
Supply Current (mA)	V ₀ <0.2V	<10				
	20V				4.4	
	30VAC/50C				4.4	
	60VAC/50C					4.4
	120VAC/50C				<10	
Fundamental Frequency (Hz)	V ₀ <0.2V			2000		
	V ₀ >0.2V					
Sound Pressure Level (dB) At 10cm or 30cm	20V	80				
	30VAC/50C	85				
	60VAC/50C				80	
	120VAC/50C				80	85
Minimum Design Life (hr)	Maximum Rated Voltage				1000	
Rated Pulse			80x20% at 12V	1.2Vx20% at 15V		20x80% at 15V
Operating Temperature (°C)					-30C~+80C	
Storage Temperature (°C)					-30C~+20C	

FYE38



DIMENSIONS Unit:mm



SPECIFICATIONS

Type	353120	353240	3P3120	3D3120
Rated Voltage (V _r)	12	24	12	
Operating Voltage (V _o)	1-13	1-28	1-13	
Rated Current (mA)	< 30	< 20		< 3000
Sound Output at 30cm (dB)	> 105	> 180		< 135/150
Resonant Frequency (Hz)	29000±500			
Pulse Rated (Pulse/Sec)	NIL		2-7	NIL/2-7
Term	SINGLE		PULSE	SINGLE/PULSE
Terminal	LEAD/PIN			
Operating Temperature (°C)	-30~+80			
Storage Temperature (°C)	-30~+70			

•Value applying at rated voltage (DC).

FYE108



DIMENSIONS Unit:mm



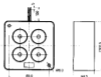
SPECIFICATIONS

Type	1053240
Rated Voltage (V _r)	24
Operating Voltage (V _o)	1-28
Rated Current (mA)	< 15
Sound Output at 30cm (dB)	> 85
Resonant Frequency (Hz)	29000±500
Pulse Rated (Pulse/Sec)	NIL
Term	SINGLE
Terminal	PALTE
Operating Temperature (°C)	-30~+80
Storage Temperature (°C)	-30~+70

•Value applying at rated voltage (DC).

FYE198

DIMENSIONS Unit:mm



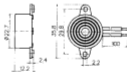
SPECIFICATIONS

Type	19T3120L	19T3240L	19H3120L	19H3240L
Rated Voltage (V _{DC})	12	24	12	24
Operating Voltage (V _{DC})	6-15	16-28	6-15	16-28
Rated Current (mA)	4198			
Sound Output at 30cm (dB)	>102		>97	
Resonant Frequency (Hz)	2000-2800(±500)		1600-2100	
Pulse Rated (Pulse/Sec)	NIL			
Tone	TWO		SINGN	
Terminal	LEAD			
Operating Temperature (°C)	-20~+50			
Storage Temperature (°C)	-30~+70			

*Value applying at rated voltage (DC)

FYE248

DIMENSIONS Unit:mm



SPECIFICATIONS

Type	2453120	2455120
Rated Voltage (V _{DC})	12	
Operating Voltage (V _{DC})	3-20	
Rated Current (mA)	4.8	
Sound Output at 30cm (dB)	>95	>90
Resonant Frequency (Hz)	2000(±50)	4500(±50)
Pulse Rated (Pulse/Sec)	NIL	
Tone	SINGLE	
Terminal	LEAD/PM	
Operating Temperature (°C)	-20~+40	
Storage Temperature (°C)	-30~+70	

*Value applying at rated voltage (DC)

FYE178



DIMENSIONS Unit:mm



SPECIFICATIONS

Type	1753120P	17P3120L
Rated Voltage (V _{DC})		12
Operating Voltage (V _{OP})		6-15
Rated Current (mA)		<40
Sound Output at 30cm (dB)		>105
Resonant Frequency (Hz)	2500-2600±500	
Pulse Rated (Pulse/Sec)	2-7	NIL
Tone	TWO	SINGLE
Terminal	PN	LEAD
Operating Temperature (°C)		-20~+50
Storage Temperature (°C)		-30~+70

*Value applying at rated voltage (DC).

FYE188



DIMENSIONS Unit:mm



SPECIFICATIONS

Type	18T3120L	18T3246L	18P3120L	18P3246L
Rated Voltage (V _{DC})	12	24	12	24
Operating Voltage (V _{OP})	6-15	16-28	6-15	16-28
Rated Current (mA)	<120			
Sound Output at 30cm (dB)	>115		>118	
Resonant Frequency (Hz)	2500-2600±500		1500-3100	
Pulse Rated (Pulse/Sec)	2-7		NIL	
Tone	TWO		OPEN	
Terminal	LEAD			
Operating Temperature (°C)	-20~+50			
Storage Temperature (°C)	-30~+70			

*Value applying at rated voltage (DC).