Piezo Transducer& Buzzer

压电式蜂鸣器

PART NUMBERING SYSTEM

L PT 1760 □ S-H S-05-4.0-15-R

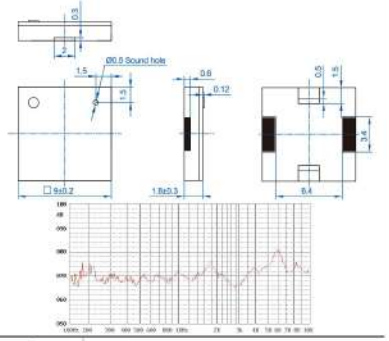
- ROHS
- capacitance
- resonant frequency
- rated voltage
- housing material(S-PPS O-PPO L-LCP A-ABS B-PBT C-PC)
- piezo material(H-Alloy G-Steel T-Brass)
- S: SMD BUZZER W: wire type
- numbering for appearance characteristics (by A, B, C, D.....)
  - P: for the discontinuous tone
  - B: for the alarm tone
  - S: for the continuous tone
- Dimensions of plastic housing (pin length not included)
  - 1760: Diameter17mm Height 6.0mm
- PT: piezo Transducer
  - PF: piezo Transducer(have feed back electrode)
  - PB: piezo Buzzer(with built -in oscillating circuit)

成品编号规则

L PT 1760 □ S-H S-05-4.0-15-R

- 环保
- 电容量
- 谐振频率
- 额定电压
- 外壳材料(S-PPS O-PPO L-LCP A-ABS B-PBT C-PC)
- 蜂鸣片基片材料(H-镍合金 G-不锈钢 T-铜)
- S: SMD W: 表示引线机种
- 用于表示同尺寸不同的外形特征 (A, B, C, D.....)
  - P: 表示断续音
  - B: 表示报警声
  - S: 表示连续音
- 表示成品直径及高度(不含针脚长度)，长方形则表示长与宽
  - 1760:表示直径17mm，高度6mm
- PT: 表示压电陶瓷讯响器(外部驱动–无源)
  - PF:表示压电陶瓷讯响器(有反馈电极–自激式)
  - PB: 表示压电陶瓷蜂鸣器(内含振荡电路–有源)

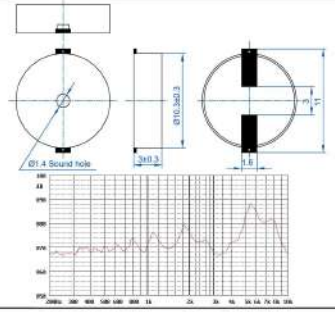
LPT9018BS



Part Number		LPT9018BS-HL-03-4.0-12-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	3max.
Capacitance at 100Hz 1V	(pF)	12000±30%
*Sound Output at 10cm	(dB)	70min.
Resonance Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+105

*Value applying at rated voltage,4000Hz,1/2 duty,square wave

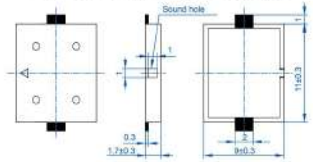
LPT1030AS



Part Number		LPT1030AS-HL-05-5.2-10-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1～25
*Rated Current	(mA)	5max
Capacitance at100Hz 1V	(PF)	10000±30%
*Sound Output at 10cm	(dB)	75min
Resonant Frequency	(Hz)	5200±500
Operating Temperature	(°C)	-40～+105

*Value applying at rated voltage, 5200Hz,1/2 duty,square wave

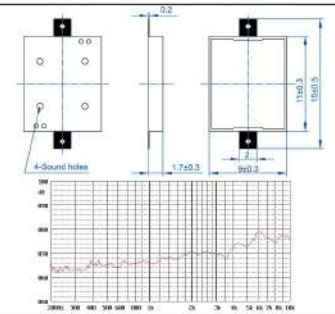
LPT1109BS



Part Number		LPT1109BS-HL-05-4.1-10-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	5max.
Capacitance at 100Hz 1V	(pF)	10000 ± 30%
*Sound Output at 10cm	(dB)	70 min.
Resonant Frequency	(Hz)	4100 ± 500
Operating Temperature	(°C)	-40～+105

*Value applying at rated voltage, 4100Hz,1/2 duty,square wave

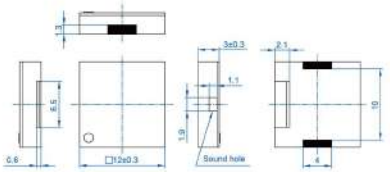
LPT1109DS



Part Number		LPT1109DS-HL-05-4.1-12-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	5max.
Capacitance at 100Hz 1V	(pF)	12000 ± 30%
*Sound Output at 10cm	(dB)	70 min.
Resonant Frequency	(Hz)	4100 ± 500
Operating Temperature	(°C)	-30～+85

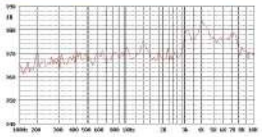
*Value applying at rated voltage, 4100Hz,1/2 duty,square wave

LPT1230S

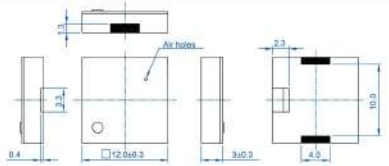


Part Number		LPT1230S-HL-03-4.0-16-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	16000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40 ~ +105

*Value applying at rated voltage, 4000Hz, 1/2 duty,square wave

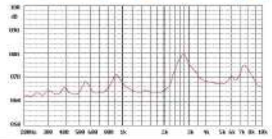


LPT1230ES

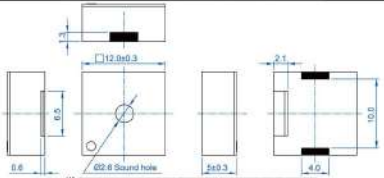


Part Number		LPT1230ES-HL-03-2.75-20-R
Rated Voltage	(Vp-p)	3
Operating Voltage (Vp-p)	(Vp-p)	1~25
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	20000±30%
*Sound Output at 10cm (dB)	(dB)	75 min.
Resonance Frequency	(Hz)	2750±500
Operating Temperature	(°C)	-40 ~ +105

*Value applying at rated voltage, 2750Hz, 1/2 duty,square wave

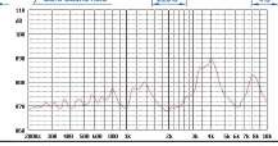


LPT1250DS

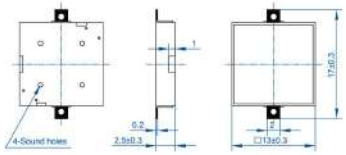


Part Number		LPT1250DS-HL-03-3.8-16-R
Rated Voltage	(Vp-p)	3
Operating Voltage (Vp-p)	(Vp-p)	1~25
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	16000±30%
*Sound Output at 10cm (dB)	(dB)	80 min.
Resonance Frequency	(Hz)	3000~4000
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage, 3800HZ , 1/2 duty Square wave

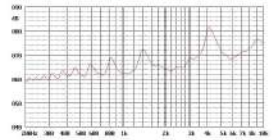


LPT1325S

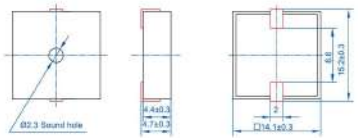


Part Number		LPT1325S-HL-03-4.1-16-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	16000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	4100±500
Operating Temperature	(°C)	-40 ~ +105

*Value applying at rated voltage, 4100Hz, 1/2 duty,square wave

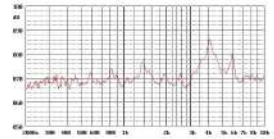


LPT1440S

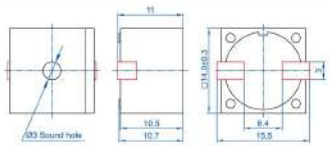


Part Number		LPT1440S-HS-05-4.0-12-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	5 max.
Capacitance at 100Hz 1V	(pF)	12000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40~+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

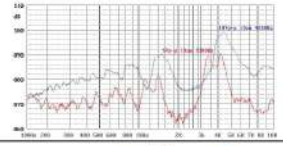


LPT1410S/AS

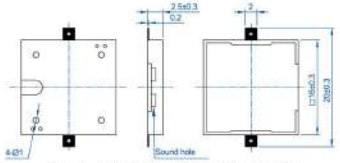


Part Number		LPT1410S-R	LPT1410AS-R
Rated Voltage	(Vp-p)	10	5
Operating Voltage	(Vp-p)	1~25	
*Rated Current	(mA)	10max.	5 max.
Capacitance at 100Hz 1V	(pF)	14000±30%	15000±30%
*Sound Output at 10cm	(dB)	90 min.	80 min.
Resonant Frequency	(Hz)	4300±500	3300±500
Operating Temperature	(°C)	-40~+85	

*Value applying at rated voltage, 1410S-4300Hz (1410AS-3300Hz) ,1/2 duty,square wave

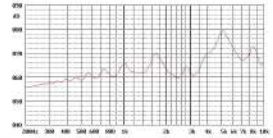


LPT1625BS

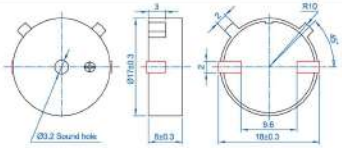


Part Number		LPT1625BS-HL-03-4.0-15-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm	(dB)	75min.
Resonant Frequency	(Hz)	4000 ±500
Operating Temperature	(℃)	-40~+105

*Value applying at rated voltage,4000Hz,1/2 duty,square wave

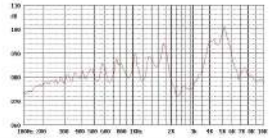


LPT1760CS

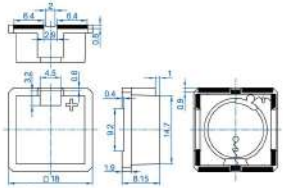


Part Number		LPT1760CS-HS-12-4.0-15-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	16000±30%
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40~+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

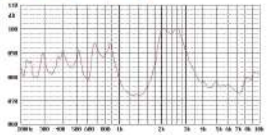


LPT1880S

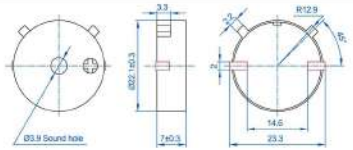


Part Number		LPT1880S-HL-12-2.0-35-R
Rated Voltage	(Vp-p)	12
Operating Voltage (Vp-p)	(Vp-p)	1～30
*Rated Current	(mA)	15 max.
Capacitance at 100Hz 1V	(pF)	35000±30%
*Sound Output at 10cm (dB)	(dB)	90 min.
Resonance Frequency	(Hz)	2000±500
Operating Temperature	(°C)	-40～+105

*Value applying at rated voltage,2000HZ , 1/2 duty Square wave

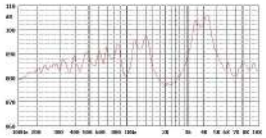


LPT2270AS

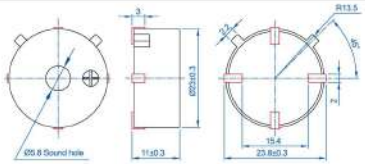


Part Number		LPT2270AS-HS-12-4.0-19-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	19000 ± 30%
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	4000 ± 500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

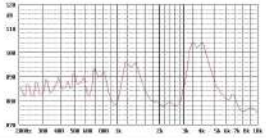


LPT2311AS

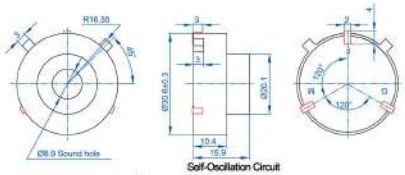


Part Number		LPT2311AS-HS-12-4.0-19-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1~30
Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	19000±30%
*Sound Output at 10cm	(dB)	100 min
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave



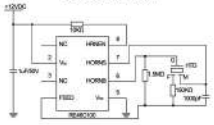
LPF3016AS



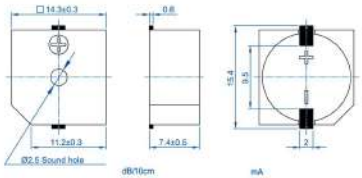
Self-Oscillation Circuit

Part Number		LPF3016AS-HS-12-3.25-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	6~18
*Rated Current	(mA)	35 max.
*Sound output at 300 cm	(dB)	85 min.
Resonant Frequency	(Hz)	2750-3500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage



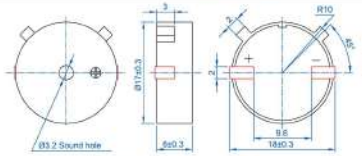
LPB1580DS



Part Number		LPB1580DS-HL-05-4.0-R
Rated Voltage	(VDC)	5
Operating Voltage	(VDC)	3～14
*Rated Current	(mA)	10max.
Reverse Current	(mA)	100max.
*Sound Output at 10cm	(dB)	80min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85
The special requirement in the test for no anti reverse connection		

*Value applying at rated voltage

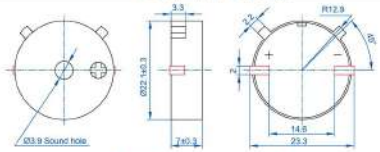
LPB1760BS



Part Number		LPB1760BS-HS-12-4.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3～14
*Rated Current	(mA)	12max.
Reverse Current	(mA)	100max.
*Sound Output at 10cm	(dB)	90min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85
The special requirement in the test for no anti reverse connection		

*Value applying at rated voltage

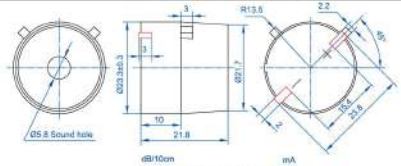
LPB2270BS



Part Number		LPB2270BS-HS-12-4.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3～14
*Rated Current	(mA)	12max.
Reverse Current	(mA)	100max.
*Sound Output at 10cm	(dB)	95min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85
The special requirement in the test for no anti reverse connection		

*Value applying at rated voltage

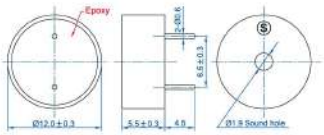
LPB2322DS



Part Number		LPB2322DS-HS-12-3.7-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	4～15
*Rated Current	(mA)	30 max.
*Sound output at 10cm	(dB)	100 min.
Resonant Frequency	(Hz)	3700±500
Operating Temperature	(°C)	-40～+85

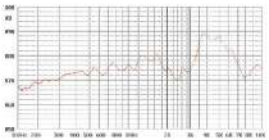
*Value applying at rated voltage

LPT1255

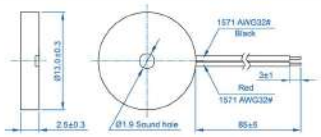


Part Number		LPT1255-TO-09-4.0-12-6.5-R
Rated Voltage	(Vp-p)	9
Operating Voltage	(Vp-p)	1～25
*Rated Current	(mA)	9 max.
Capacitance at 100Hz 1V	(pF)	12000±30%
*Sound Output at 10cm	(dB)	85 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

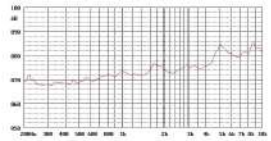


LPT1325W

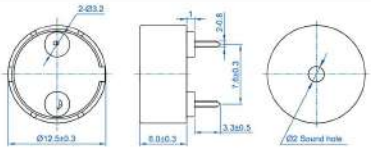


Part Number		LPT1325W-TA-05-5.0-15-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	5max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm	(dB)	80 min.
Resonant Frequency	(Hz)	5000±500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 5000Hz,1/2 duty,square wave

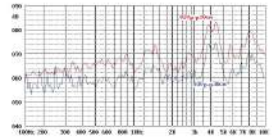


LPT1360A

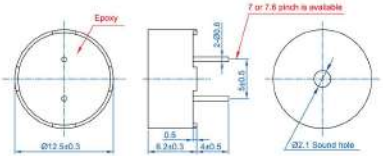


Part Number		LPT1360A-TO-03-4.0-12-7.6-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~20
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	12000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

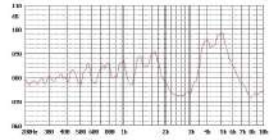


LPT1360EZ

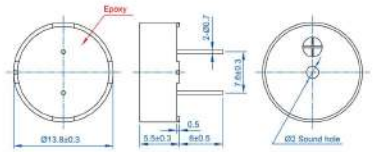


Part Number		LPT1360EZ-TO-12-4.0-15-5.0-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1～30
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm	(dB)	90min
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

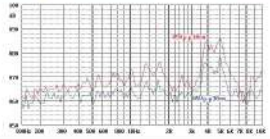


LPT1450

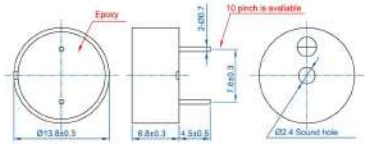


Part Number		LPT1450-TO-05-4.0-15-7.6-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1-25
*Rated Current	(mA)	5 max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm	(dB)	80 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

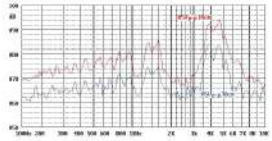


LPT1470A

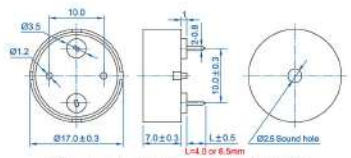


Part Number		LPT1470A-TO-05-4.0-15-7.6-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1~25
*Rated Current	(mA)	5 max.
Capacitance at 100Hz 1V	(pF)	15000 ± 30%
*Sound Output at 10cm	(dB)	85 min.
Resonant Frequency	(Hz)	4000 ± 500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

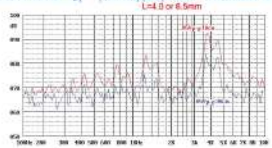


LPT1770A

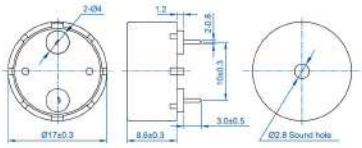


Part Number		LPT1770A-TB-05-4.0-15-10.0-R
Rated Voltage	(Vp-p)	5
Operating Voltage	(Vp-p)	1 ~ 20
*Rated Current	(mA)	5 max.
Capacitance at 100Hz 1V	(pF)	15000 ± 30%
*Sound Output at 10cm	(dB)	85 min.
Resonant Frequency	(Hz)	4000 ± 500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

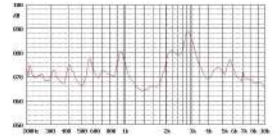


LPT1790

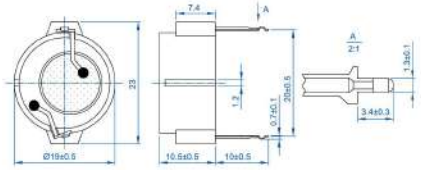


Part Number		LPT1790-TB-03-2.0-25-10.0-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1 ~ 20
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	25000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	2000±500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage, 2000Hz,1/2 duty,square wave

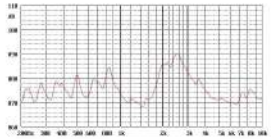


LPT1911

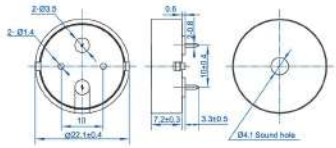


Part Number		LPT1911-TB-10-2.0-32-20.0-R
Rated Voltage	(Vp-p)	10
Operating Voltage (Vp-p)	(Vp-p)	1～30
*Rated Current (mA)	(mA)	10max.
Capacitance at 100Hz 1V	(pF)	32000±30%
*Sound Output at 10cm (dB)	(dB)	80 min.
Resonance Frequency (Hz)	(Hz)	2000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 2000Hz,1/2 duty,square wave

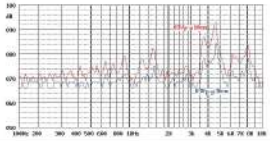


LPT2270-2

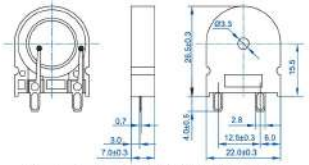


Part Number		LPT2270-2-TB-03-4.0-15-10.0-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm	(dB)	80 min.
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

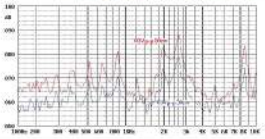


LPT2270D

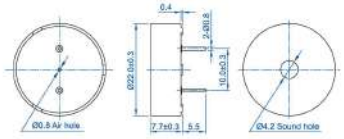


Part Number		LPT2270D -TB-03-2.0-20-12.5-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	20000±30%
*Sound Output at 10cm	(dB)	75 min.
Resonant Frequency	(Hz)	2000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 2000Hz,1/2 duty,square wave

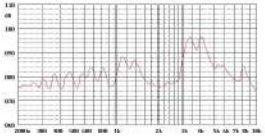


LPT2280

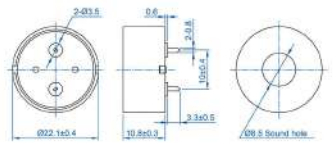


Part Number		LPT2280-TB-09-4.1-14-10.0-R
Rated Voltage	(Vp-p)	9
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	9 max.
Capacitance at 100Hz 1V	(pF)	14000±30%
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	4100±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4100Hz,1/2 duty,square wave

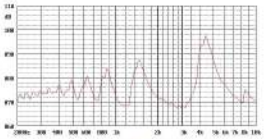


LPT2210-2

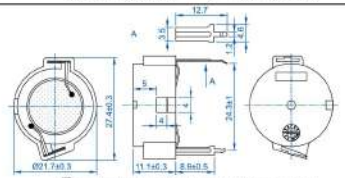


Part Number		LPT2210-2-TB-03-4.0-15-10.0-R
Rated Voltage	(Vp-p)	3
Operating Voltage (Vp-p)	(Vp-p)	1～30
*Rated Current (mA)	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	15000±30%
*Sound Output at 10cm (dB)	(dB)	90 min.
Resonance Frequency (Hz)	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

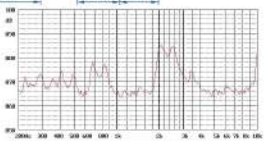


LPT2211

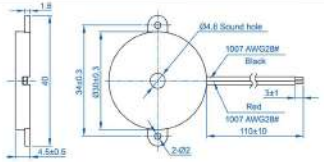


Part Number		LPT2211-TA-03-2.0-27-24.3-R
Rated Voltage	(Vp-p)	3
Operating Voltage (Vp-p)	(Vp-p)	1～30
*Rated Current (mA)	(mA)	3 max.
Capacitance at 100Hz 1V	(pF)	27000±30%
*Sound Output at 10cm (dB)	(dB)	78 min.
Resonance Frequency (Hz)	(Hz)	2000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 2000Hz,1/2 duty,square wave

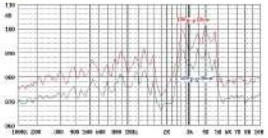


LPT3045W

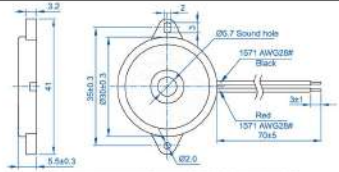


Part Number		LPT3045W-TA-12-4.0-20-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	20000 ± 30%
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	4000 ± 500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

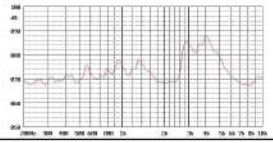


LPT3055DW

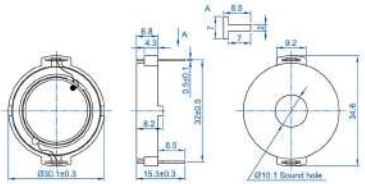


Part Number		LPT3055DW-TA-03-4.0-25-R
Rated Voltage	(Vp-p)	3
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	5 max.
Capacitance at 100Hz 1V	(pF)	25000 ± 30%
*Sound Output at 10cm	(dB)	80 min.
Resonant Frequency	(Hz)	4000 ± 500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

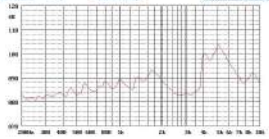


LPT3007AZ

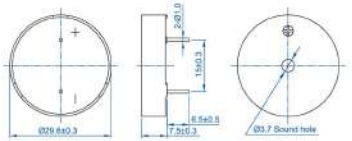


Part Number		LPT3007AZ-GB-18-4.0-100-R
Rated Voltage	(Vp-p)	18
Operating Voltage (Vp-p)	(Vp-p)	1～50
*Rated Current (mA)	(mA)	80 max.
Capacitance at 100Hz 1V	(pF)	100000±30%
*Sound Output at 300cm (dB)	(dB)	90 min.
Resonance Frequency (Hz)	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 4000Hz,1/2 duty,square wave

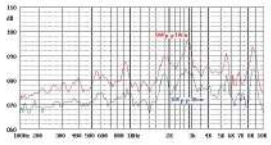


LPT3075AD

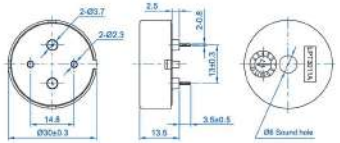


Part Number		LPT3075AD-TB-10-2.5-20-15.0-R
Rated Voltage	(Vp-p)	10
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	10 max.
Capacitance at 100Hz 1V	(pF)	20000 ± 30%
*Sound Output at 10cm	(dB)	85 min.
Resonant Frequency	(Hz)	2500 ± 500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage, 2500Hz,1/2 duty,square wave

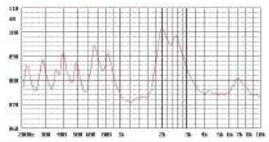


LPT3011A

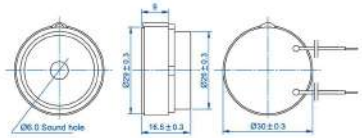


Part Number		LPT3011A-TB-12-2.0-35-13.0-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1～20
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	35000±30%
*Sound Output at 10cm	(dB)	95 min.
Resonant Frequency	(Hz)	2000±500
Operating Temperature	(°C)	-40～+85

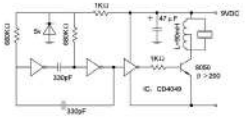
*Value applying at rated voltage, 2000Hz,1/2 duty,square wave



LPT3016W



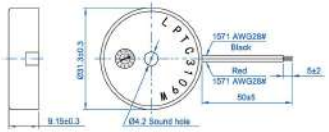
Self-Oscillation Circuit



Part Number		LPT3016W-TA-09-3.4-R
Rated Voltage	(VDC)	9
Operating Voltage	(VDC)	3~28
*Rated Current	(mA)	180 max.
*Sound Output at 10cm	(dB)	100 min.
Resonant Frequency	(Hz)	3400 ± 500
Operating Temperature	(°C)	-20～+70

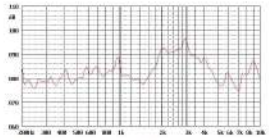
*Value applying at rated voltage

LPT3109W

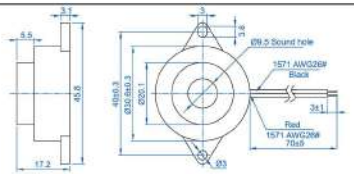


Part Number		LPT3109W-TA-10-2.0-45-R
Rated Voltage	(Vp-p)	10
Operating Voltage	(Vp-p)	1～30
*Rated Current	(mA)	10 max.
Capacitance at 100Hz 1V	(pF)	45000±30%
*Sound Output at 10cm	(dB)	85min.at 2000Hz,95min.at 3000Hz
Resonance Frequency	(Hz)	2000～3000
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 2000Hz/3000HZ,1/2 duty,square wave

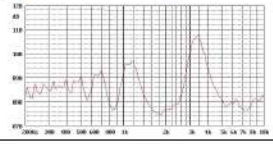


LPT3117AW

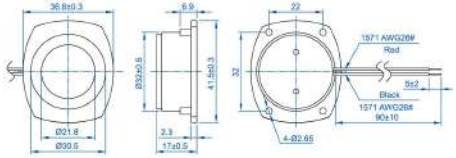


Part Number		LPT3117AW-TA-12-3.15-35-R
Rated Voltage	(Vp-p)	12
Operating Voltage (Vp-p)	(Vp-p)	1～30
*Rated Current (mA)	(mA)	20 max.
Capacitance at 100Hz 1V	(pF)	35000±30%
*Sound Output at 10cm (dB)	(dB)	100 min.
Resonance Frequency (Hz)	(Hz)	3150±500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 3150Hz,1/2 duty,square wave

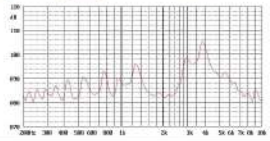


LPT3217BW

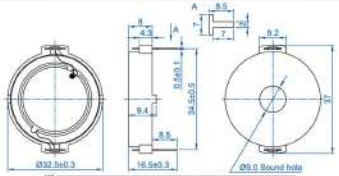


Part Number		LPT3217BW-TA-12-2.8-20-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1~30
*Rated Current	(mA)	12 max.
Capacitance at 100Hz 1V	(pF)	20000±30%
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	2800±500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage,2800Hz,1/2 duty,square wave

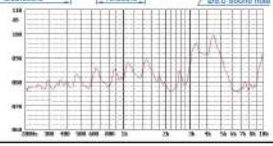


LPT3308AZ

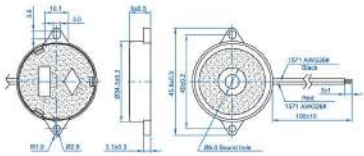


Part Number		LPT3308AZ-TB-18-3.25-120-R
Rated Voltage	(Vp-p)	18
Operating Voltage (Vp-p)	(Vp-p)	1～60
*Rated Current (mA)	(mA)	80 max.
Capacitance at 100Hz 1V	(pF)	120000±30%
*Sound Output at 300cm (dB)	(dB)	85 min.
Resonance Frequency (Hz)	(Hz)	3250±500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage, 3250Hz,1/2 duty,square wave

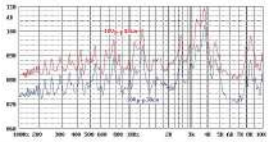


LPT3590BW

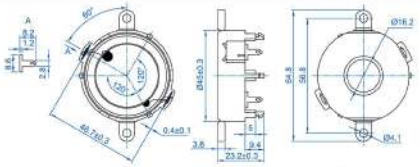


Part Number		LPT3590BW-TA-16-1.1-50-R
Rated Voltage	(Vp-p)	10
Operating Voltage	(Vp-p)	1～30
*Rated Current	(mA)	10 max.
Capacitance at 100Hz 1V	(pF)	50000±30%
*Sound Output at 10cm	(dB)	85 min.
Resonant Frequency	(Hz)	1100±500
Operating Temperature	(°C)	-20～+70

*Value applying at rated voltage,1100Hz,1/2 duty,square wave

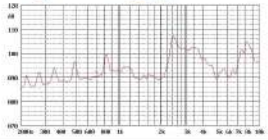


LPT4524

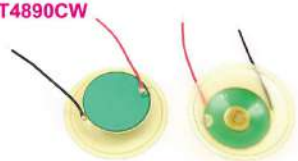


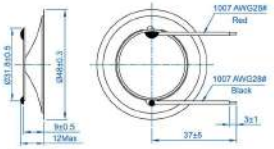
Part Number		LPT4524-TP-12-2.5-250-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	3~50
*Rated Current	(mA)	100 max.
Capacitance at 100Hz 1V	(pF)	250000 ± 30%
*Sound Output at 30cm	(dB)	95 min.
Resonant Frequency	(Hz)	2500 ± 500
Operating Temperature	(°C)	-40～+95

*Value applying at rated voltage,2500Hz,1/2 duty,square wave



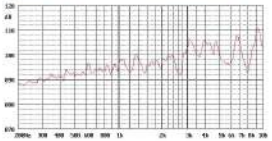
LPT4890CW



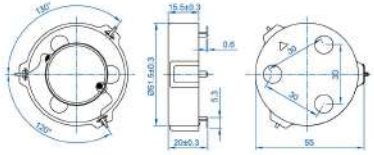


Part Number		LPT4890CW-TP-12-3.1-120-R
Rated Voltage	(Vp-p)	12
Operating Voltage	(Vp-p)	1～50
*Rated Current	(mA)	100 max.
Capacitance at 100Hz 1V	(pF)	120000±30%
*Sound Output at 30 cm	(dB)	100 min.
Resonance Frequency	(Hz)	3100±500
Operating Temperature	(°C)	-40～+100

*Value applying at rated voltage, 3100Hz,1/2 duty, square wave

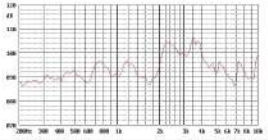


LPT5216

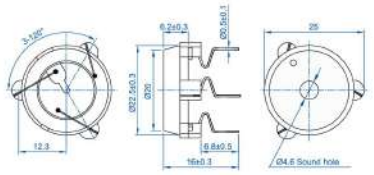


Part Number		LPT5216-TP-18-2.0-250-R
Rated Voltage	(Vp-p)	18
Operating Voltage	(Vp-p)	1～60
*Rated Current	(mA)	150 max.
Capacitance at 100Hz 1V	(pF)	250000 ± 30%
*Sound Output at 300cm	(dB)	90 min.
Resonant Frequency	(Hz)	2000~4000
Operating Temperature	(°C)	-40～+95

*Value applying at rated voltage,2000Hz,1/2 duty,square wave



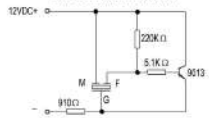
LPF2260B



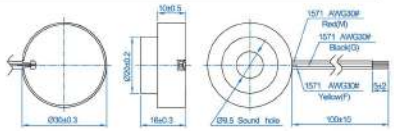
Part Number		LPF2260B-TO-12-3.6-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	12 max.
*Sound Output at 30cm	(dB)	85 min.
Resonant Frequency	(Hz)	3600 ± 300
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

Self-Oscillation Circuit



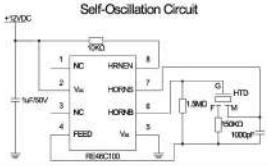
LPF2916BW



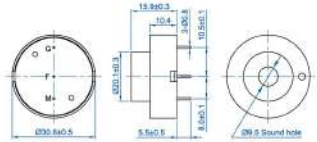
Part Number		LPF2916BW-GA-12-3.25-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	6-16
*Rated Current	(mA)	35max
*Sound output at 300 cm	(dB)	85min
Resonant Frequency	(Hz)	3250±500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

Self-Oscillation Circuit



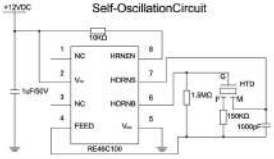
LPF3016AZ



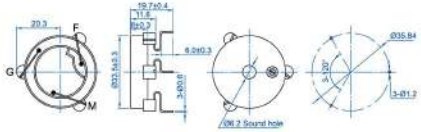
Part Number		LPF3016AZ-GB-12-3.25-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	6-16
*Rated Current	(mA)	30max
*Sound Output at 300cm	(dB)	85min
Resonant Frequency	(Hz)	3000 ~ 3500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

Self-OscillationCircuit



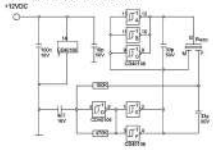
LPF3380AZ



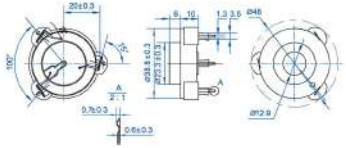
Part Number		LPF3380AZ-TA-12-2.6-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	5 ~ 15
*Rated Current	(mA)	30max
*Sound Output at 300cm	(dB)	85min
Resonant Frequency	(Hz)	2600±500
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

Self-OscillationCircuit



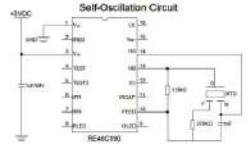
LPF3916



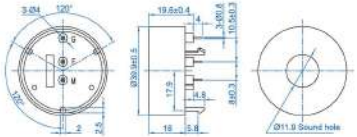
Part Number		LPF3916-GA-12-3.2-R
Rated Voltage	(VDC)	3
Operating Voltage	(VDC)	2.4～5.5
*Rated Current	(mA)	30 max.
*Sound Output at 30Dcm	(dB)	90 min.
Resonant Frequency	(Hz)	3200±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage

Self-Oscillation Circuit



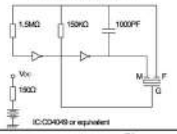
LPF3917E



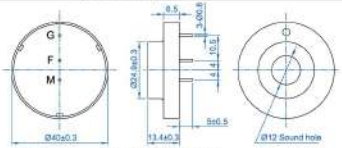
Part Number		LPF3917E-GB-09-3.4-R
Rated Voltage	(VDC)	9
Operating Voltage	(VDC)	4～15
*Rated Current	(mA)	15max
*Sound output at 300 cm	(dB)	85min
Resonant Frequency	(Hz)	3400±500
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage

Self-Oscillation Circuit



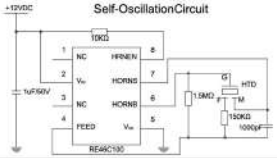
LPF4013AZ



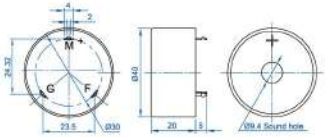
Part Number		LPF4013AZ-GB-12-3.25-R
Rated Voltage	(VDC)	12
Max Input Voltage	(VDC)	6～16
*Current Consumption	(mA)	30max.
*Sound Output at 300cm	(dB)	85min.
*Resonant frequency	(Hz)	3250±250
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage

Self-OscillationCircuit



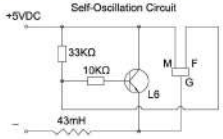
LPF4020A



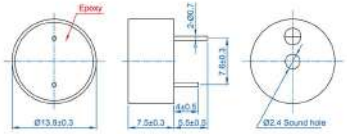
Part Number		LPF4020A-GA-05-3.0-R
Rated Voltage	(VDC)	5
Operating Voltage	(VDC)	3～9
*Rated Current	(mA)	30max
*Sound Output at 10cm	(dB)	105min
Resonant Frequency	(Hz)	3000±250
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage

Self-Oscillation Circuit



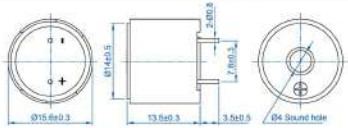
LPB1475B



Part Number		LPB1475B-TO-12-4.0-7.6-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3～14
*Rated Current	(mA)	12max
Reverse Current	(mA)	100max
*Sound output at 10cm	(dB)	90min
Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85
The special requirements in the test for no anti reverse connection.		

*Value applying at rated voltage

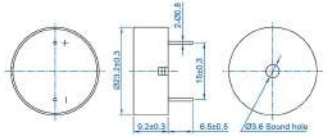
LPB1614DZ



Part Number		LPB1614DZ-TB-12-4.0-7.6-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	4～15
*Rated Current	(mA)	30max
*Sound Output at10cm	(dB)	95min
*Resonant Frequency	(Hz)	4000±500
Operating Temperature	(°C)	-40～+85
The special requirements in the test for no anti reverse connection.		

*Value applying at rated voltage

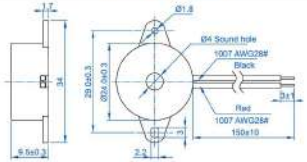
LPB2410-1



Part Number		LPB2410-1-TB-12-3.4-15.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	15 max.
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	3400±500
Tone		Continuous
Operating Temperature	(°C)	-40～+85

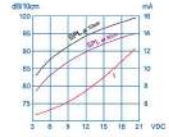
*Value applying at rated voltage

LPB2395W

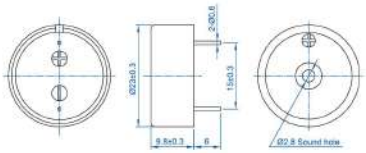


Part Number		LPB2395W-TC-12-3.4-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	15 max.
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	3400±500
Tone		Continuous
Operating Temperature	(°C)	-20~+70

*Value applying at rated voltage

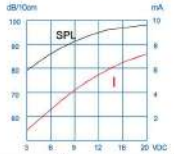


LPB2398

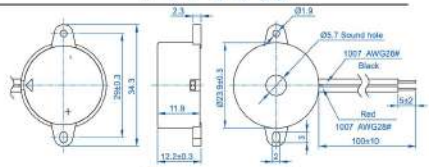


Part Number		LPB2398-TB-12-3.5-15.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	12 max.
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	3500 ± 500
Tone		Continuous
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

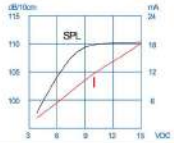


LPB2312DW

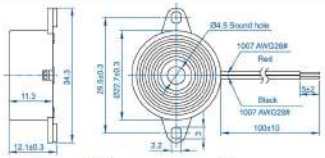


Part Number		LPB2312DW-TB-12-3.7-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	4 ~ 15
*Rated Current	(mA)	30max
*Sound output at 10cm	(dB)	100min
Resonant Frequency	(Hz)	3700±500
Tone		Continuous
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage



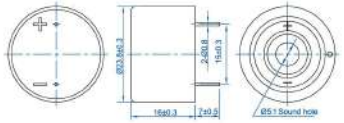
LPB2413FW



Part Number		LPB2413FW-TO-03-3.7-R
Rated Voltage	(VDC)	3
Operating Voltage	(VDC)	2.3 ~ 3.3
*Rated Current	(mA)	25max
*Sound output at 10cm	(dB)	98min
Resonant Frequency	(Hz)	3700±500
Tone		Continuous
Operating Temperature	(°C)	-20 ~ +70

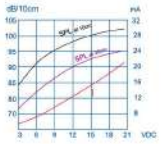
*Value applying at rated voltage

LPB2418A

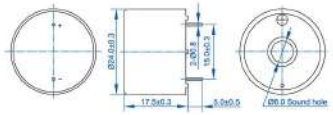


Part Number		LPB2418A-TB-12-2.8-15.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	15 max.
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	2800 ± 500
Tone		Continuous
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage

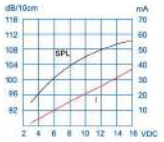


LPB2418E

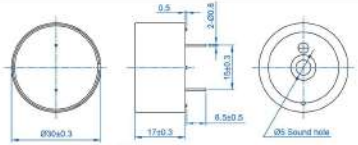


Part Number		LPB2418E-TB-05-3.8-15.0-R
Rated Voltage	(VDC)	5
Operating Voltage	(VDC)	3~16
*Rated Current	(mA)	35max
*Sound output at 30cm	(dB)	90min
Resonant Frequency	(Hz)	3800±500
Tone		Continuous
Operating Temperature	(°C)	-20~+85

*Value applying at rated voltage

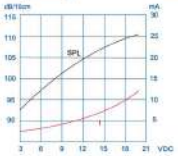


LPB3015

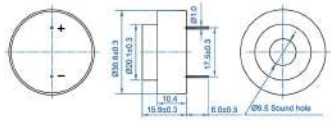


Part Number		LPB3015-TA-12-2.7-15.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	15 max.
*Sound Output at 10cm	(dB)	95 min.
Resonant Frequency	(Hz)	2700 ± 500
Tone		Continuous
Operating Temperature	(°C)	-40~+85

*Value applying at rated voltage

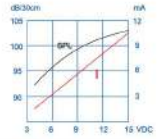


LPB3016BZ

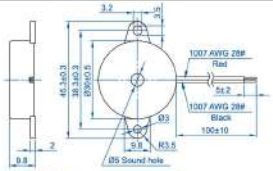


Part Number		LPB3016BZ-GB-12-3.5-17.5-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	4~15
*Rated Current	(mA)	15max
*Sound output at 30cm	(dB)	95min
Resonant Frequency	(Hz)	3500±500
Tone		Continuous
Operating Temperature	(°C)	-40~+85
The special requirement in the test for no anti reverse connection		

*Value applying at rated voltage

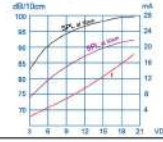


LPB3095W

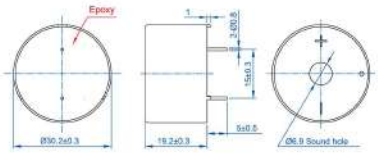


Part Number		LPB3095W-TA-12-3.5-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	20 max.
*Sound Output at 10cm	(dB)	90 min.
Resonant Frequency	(Hz)	3500 ± 500
Tone		Continuous
Operating Temperature	(°C)	-20~+70

*Value applying at rated voltage

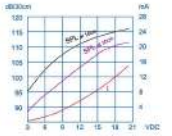


LPB3020B

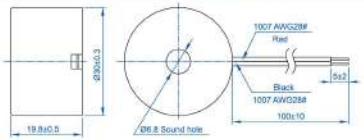


Part Number		LPB3020B-TB-12-3.5-15.0-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	12 max.
*Sound Output at 30cm	(dB)	95 min.
Resonant Frequency	(Hz)	3500 ± 500
Tone		Continuous
Operating Temperature	(°C)	-40 ~ +85

*Value applying at rated voltage



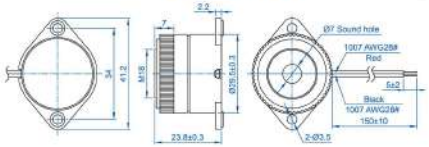
LPB3020SW/PW



Part Number		LPB3020SW-TC-12-3.5-R	LPB3020PW-TC-12-3.5-R
Rated Voltage	(VDC)	12	12
Operating Voltage	(VDC)	3~20	3~20
*Rated Current	(mA)	20max	20max
*Sound output at 30cm	(dB)	95min	95min
Resonant Frequency	(Hz)	3500±500	3500±500
Tone		Continuous	Pulse
Operating Temperature	(°C)	-20 ~ +70	-20 ~ +70

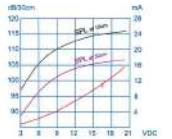
*Value applying at rated voltage

LPB3024SW/PW

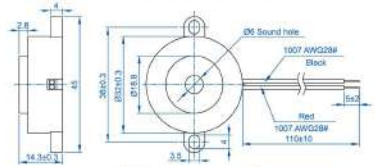


Part Number		LPB3024SW-TA-12-3.5-R	LPB3024PW-TA-12-3.7-R
Rated Voltage	(VDC)	12	12
Operating Voltage	(VDC)	3~20	3~20
*Rated Current	(mA)	15 max.	15 max.
*Sound Output at 30cm	(dB)	95 min.	95 min.
Resonant Frequency	(Hz)	3500 ± 500	3700 ± 500
Tone		Continuous	Pulse
Operating Temperature	(°C)	-20 ~ +70	-20 ~ +70

*Value applying at rated voltage

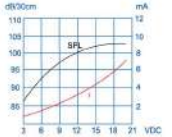


LPB3215SW

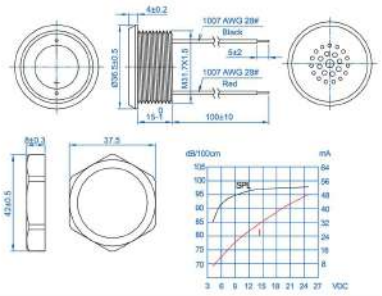


Part Number		LPB3215SW-TA-12-3.9-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	12 max.
*Sound Output at 30cm	(dB)	95 min.
Resonant Frequency	(Hz)	3900 ± 500
Tone		Continuous
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage



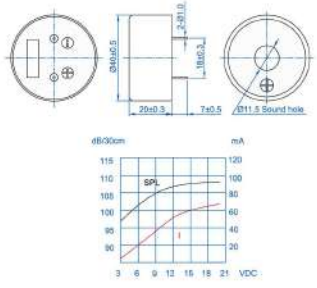
LPB3719DW



Part Number		LPB3719DW-TA-12-3.5-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	4.4～25
*Rated Current	(mA)	25max
*Sound output at 100cm	(dB)	95min
Resonant Frequency	(Hz)	3500±500
Tone		Continuous
Operating Temperature	(°C)	-20～+70
The special requirements in the test for no anti reverse connection.		

*Value applying at rated voltage

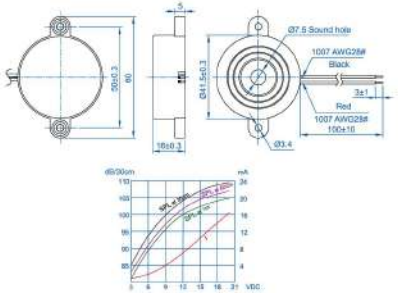
LPB4020



Part Number		LPB4020-GO-09-2.8-18.0-R
Rated Voltage	(VDC)	9
Operating Voltage	(VDC)	3～20
*Rated Current	(mA)	80 max.
*Sound Output at 30cm	(dB)	100 min.
Resonant Frequency	(Hz)	2800±500
Tone		Continuous
Operating Temperature	(°C)	-40～+85

*Value applying at rated voltage

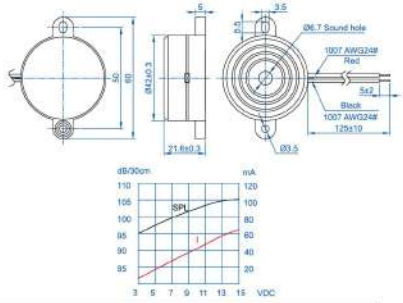
LPB4216SW



Part Number		LPB4216SW-TA-12-2.8-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~20
*Rated Current	(mA)	12 max.
*Sound Output at 30cm	(dB)	100 min.
Resonant Frequency	(Hz)	2800 ± 500
Tone		Continuous
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage

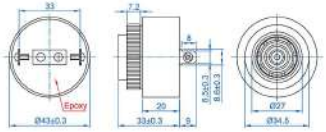
LPB4221BW



Part Number		LPB4221BW-TA-12-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3～15
*Rated Current	(mA)	95 max.
*Sound Output at30 cm	(dB)	100 min.
Tone		Siren
Operating Temperature	(°C)	-20 ～ +70

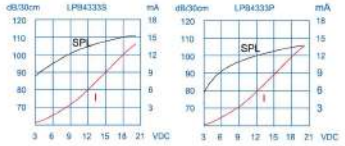
*Value applying at rated voltage

LPB4333S/P

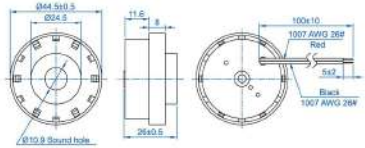


Part Number		LPB4333S	LPB4333P
Rated Voltage	(VDC)	12	
Operating Voltage	(VDC)	3~20	
*Rated Current	(mA)	12 max.	
*Sound Output at 30cm	(dB)	95 min.	90 min.
Resonant Frequency	(Hz)	2900 ± 500	
Tone		Continuous	Pulse
Operating Temperature	(°C)	-20 ~ +70	

*Value applying at rated voltage

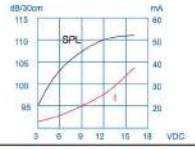


LPB4526W

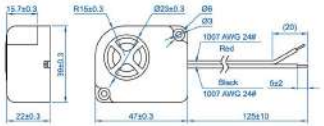


Part Number		LPB4526W-GA-12-2.9-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	3~16
*Rated Current	(mA)	35 max.
*Sound Output at 30cm	(dB)	105 min.
*Resonant Frequency	(HZ)	2900 ± 500
Tone		Continuous
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage

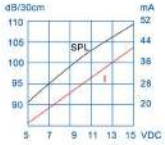


LPB4720W

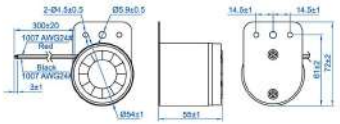


Part Number		LPB4720W-TA-12-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	5~15
*Rated Current	(mA)	60max
*Sound output at 30cm	(dB)	100min
Tone	(Hz)	Siren
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage



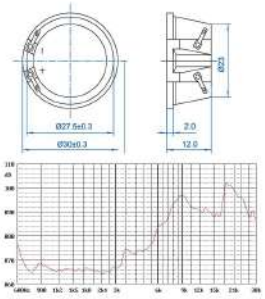
LPB5455BW



Part Number		LPB5455BW-TA-12-R
Rated Voltage	(VDC)	12
Operating Voltage	(VDC)	5~15
*Rated Current	(mA)	300max
*Sound Output at 100cm	(dB)	105min
Tone		Siren
Operating Temperature	(°C)	-20 ~ +70

*Value applying at rated voltage

LDG30



Part Number		LDG30
Rated Voltage	(Vrms)	5.5
Operating Voltage	(Vrms)	15 max.
*Sound Output at 50cm	(dB)	90 min.
Resonant Frequency	(Hz)	25000±500
Operating Temperature	(°C)	-20~+70

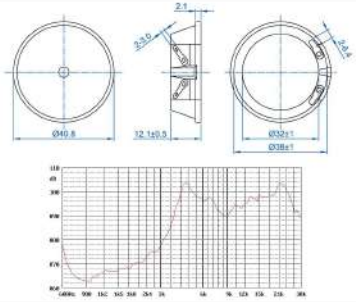
*Value applied at 5.5Vrms,25KHz sine wave

LDG38

Part Number		LDG38
Rated Voltage	(Vrms)	2.83
Operating Voltage	(Vrms)	10 max.
*Sound Output at 50cm	(dB)	95 min.
Resonant Frequency	(Hz)	22000±500
Operating Temperature	(°C)	-20~+70

*Value applied at 2.83Vrms,22KHz sine wave

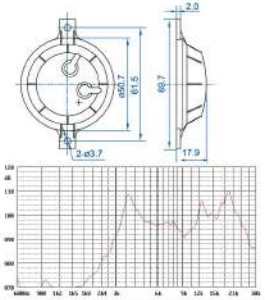
LDG41



Part Number		LDG41
Rated Voltage	(Vrms)	2.83
Operating Voltage	(Vrms)	10 max.
*Sound Output at 50cm	(dB)	95 min.
Resonant Frequency	(Hz)	20000±500
Operating Temperature	(°C)	-20~+70

*Value applied at 2.83Vrms,20KHz sine wave

LDG51



Part Number		LDG51
Rated Voltage	(Vp-p)	5.5
Operating Voltage	(Vp-p)	15 max.
*Sound Output at 50cm	(dB)	95 min.
Resonant Frequency	(Hz)	20000±500
Operating Temperature	(°C)	-20~+70

*Value applied at5.5Vp-p,20KHz square wave