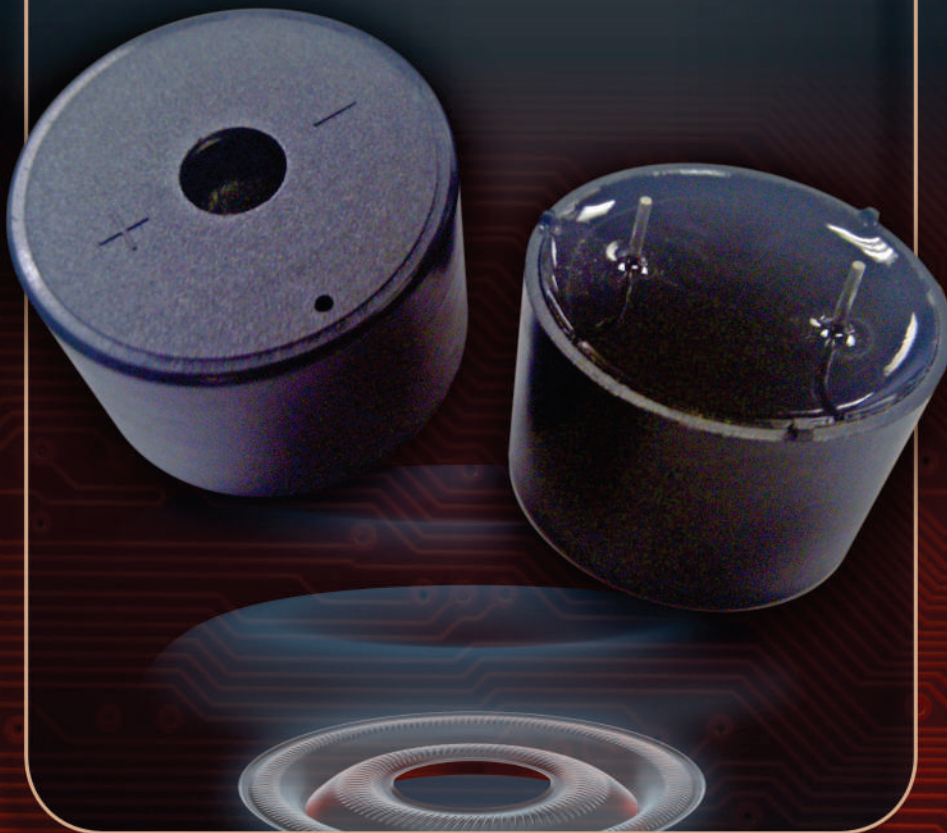


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## Buzzer Selection Guide

EX-STOCK



# INDEX



## BUZZER SELECTION GUIDE

2

Magnetic Buzzers



5

Piezo Buzzers



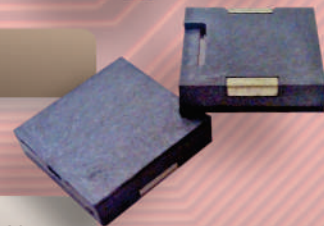
7

Magnetic Transducer Buzzers



8

Piezo Transducer Buzzers



10

dBace Buzzer Cross-Reference

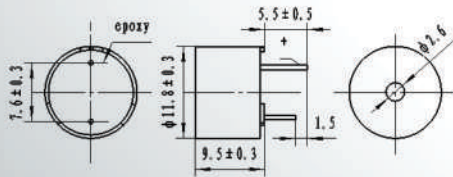


# MAGNETIC BUZZERS

Buzzer /1D – EB1223P



Material & Dimensions



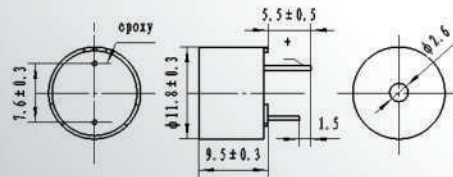
Electrical Characteristics

Rated Voltage	5	VDC
Operating Voltage	3-7	VDC
Resonant Frequency	2300±300	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤30	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /2D—EB1223PE



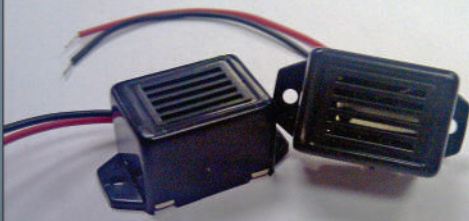
Material & Dimensions



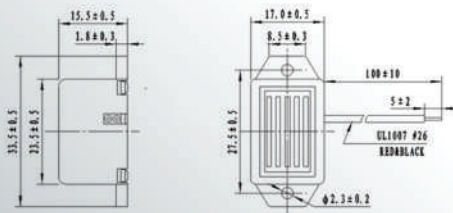
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	7-16	VDC
Resonant Frequency	2300±300	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤30	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /12D—MB2340W-12



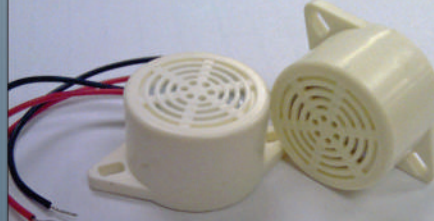
Material & Dimensions



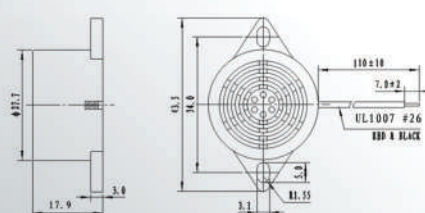
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	9~15	VDC
Resonant Frequency	400±100	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤35	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C

Buzzer /13D—MB2640W-12



Material & Dimensions



Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	8~15	VDC
Resonant Frequency	400±100	Hz
Sound Output at 10cm	90	dB
Current Consumption	≤40	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C



# MAGNETIC BUZZERS

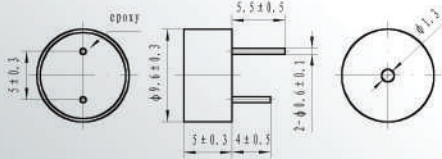


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Buzzer /14D – EB9627P



Material & Dimensions



Electrical Characteristics

Rated Voltage	5	VDC
Operating Voltage	3~8	VDC
Resonant Frequency	2700±300	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤30	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /15D – EB1623P



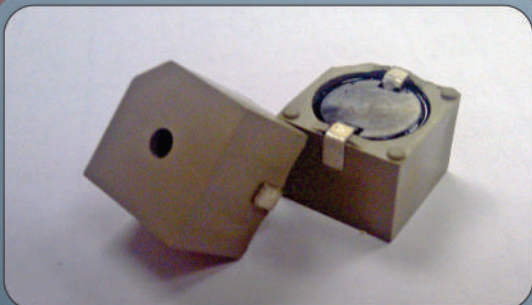
Material & Dimensions



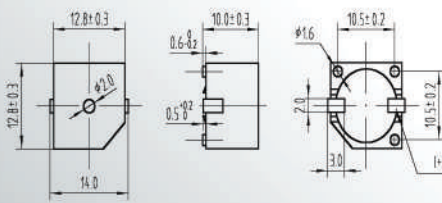
Electrical Characteristics

Rated Voltage	5	VDC
Operating Voltage	3~8	VDC
Resonant Frequency	2300±300	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤30	mA
Operating Temperature	20~+70	°C
Storage Temperature	30~+80	°C

Buzzer /24D – EB1323S1



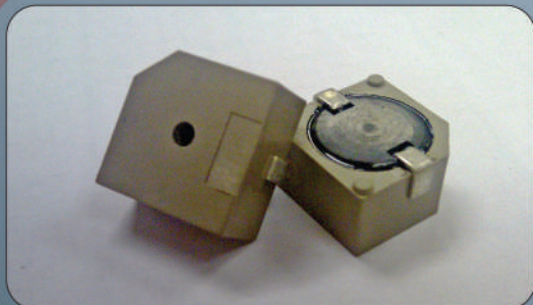
Material & Dimensions



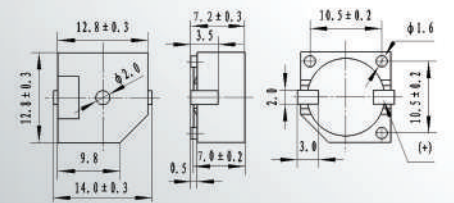
Electrical Characteristics

Rated Voltage	5	VDC
Operating Voltage	3~8	VDC
Resonant Frequency	2300±300	Hz
Sound Output at 10cm	≥85	dB
Current Consumption	≤30	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /25D – EB1323S



Material & Dimensions

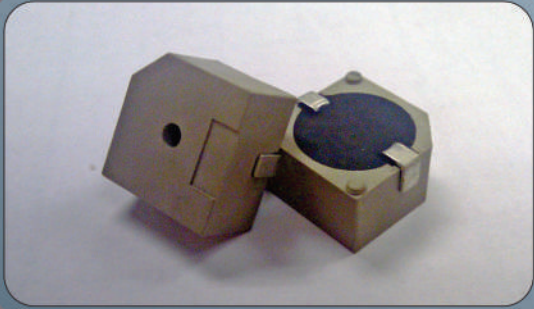


Electrical Characteristics

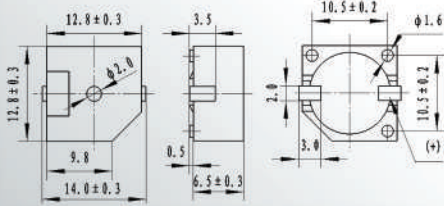
Rated Voltage	5	VDC
Operating Voltage	3~8	VDC
Resonant Frequency	2300±300	Hz
Sound Output at 10cm	≥88	dB
Current Consumption	≤30	mA
Operating Temperature	20~+70	°C
Storage Temperature	-30~+80	°C

# MAGNETIC BUZZERS

Buzzer /26D – EB1323S-12



Material & Dimensions



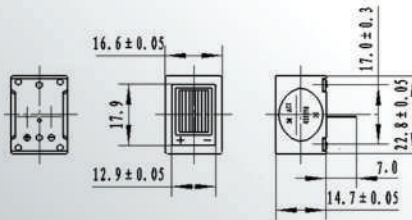
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	7~15	VDC
Resonant Frequency	2400±300	Hz
Sound Output at 10cm	≥88	dB
Current Consumption	≤30	mA
Operating Temperature	20~+70	°C
Storage Temperature	30~+80	°C

Buzzer /29D – MB2316-12



Material & Dimensions



Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	9~15	VDC
Resonant Frequency	400±100	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤30	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C



# PIEZO BUZZERS



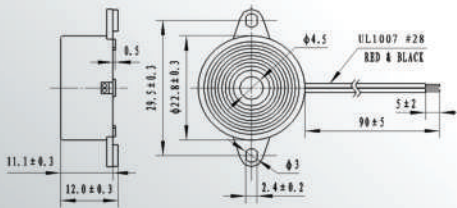
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Buzzer /3D – PBC2433W-90



Material & Dimensions



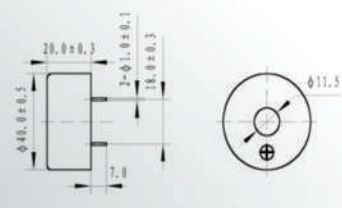
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	3~20	VDC
Resonant Frequency	3000±500	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤12	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C

Buzzer /4D – PBC4028P-24



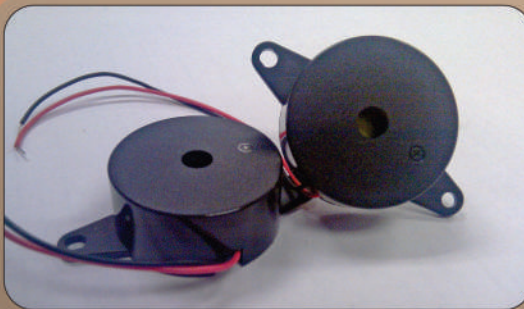
Material & Dimensions



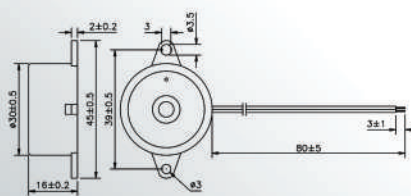
Electrical Characteristics

Rated Voltage	24	VDC
Operating Voltage	5~30	VDC
Resonant Frequency	2800±500	Hz
Sound Output at 10cm	95	dB
Current Consumption	≤70	mA
Operating Temperature	20 ~ +65	°C
Storage Temperature	30 ~ +75	°C

Buzzer /5D – PBC3135W-24



Material & Dimensions



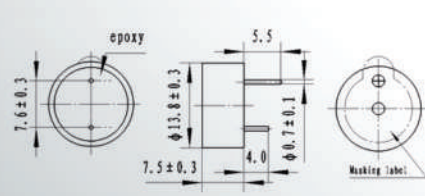
Electrical Characteristics

Rated Voltage	24	VDC
Operating Voltage	12~28	VDC
Resonant Frequency	3500±500	Hz
Sound Output at 30cm	95	dB
Current Consumption	≤20	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /6D – PBC1440P



Material & Dimensions

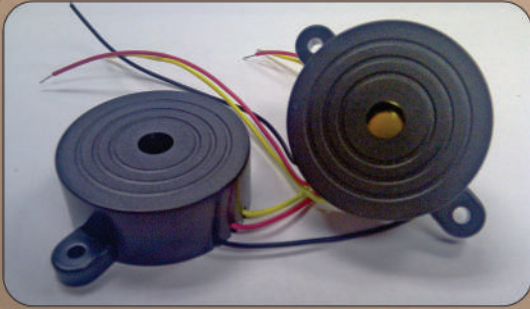


Electrical Characteristics

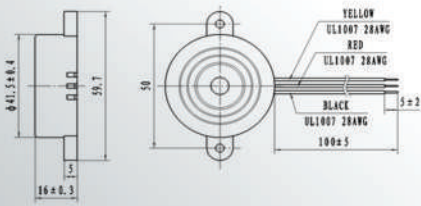
Rated Voltage	12	VDC
Operating Voltage	3~16	VDC
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	85	dB
Current Consumption	≤12	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

# PIEZO BUZZERS

Buzzer /8D – PBC4228WA



Material & Dimensions



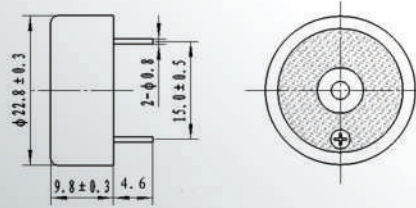
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	5~30	VDC
Resonant Frequency	2800±500	Hz
Sound Output at 10cm	90	dB
Current Consumption	≤ 15	mA
Operating Temperature	20 ~ +65	°C
Storage Temperature	30 ~ +75	°C

Buzzer /9D – PBC2335P



Material & Dimensions



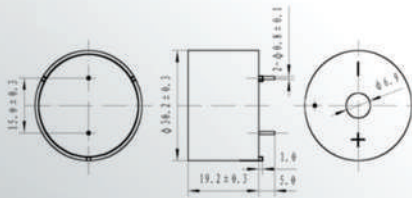
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	3~20	VDC
Resonant Frequency	3500±500	Hz
Sound Output at 10cm	90	dB
Current Consumption	≤ 12	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+70	°C

Buzzer /19D – PBC3035P



Material & Dimensions



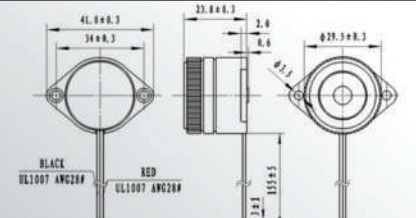
Electrical Characteristics

Rated Voltage	12	VDC
Operating Voltage	3~20	VDC
Resonant Frequency	3500±500	Hz
Sound Output at 30cm	100	dB
Current Consumption	≤ 12	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-20~+70	°C

Buzzer /27D – PBC3035W-24



Material & Dimensions



Electrical Characteristics

Rated Voltage	24	VDC
Operating Voltage	3~28	VDC
Resonant Frequency	3500±500	Hz
Sound Output at 30cm	95	dB
Current Consumption	≤ 15	mA
Operating Temperature	-20~+70	°C
Storage Temperature	30~+80	°C



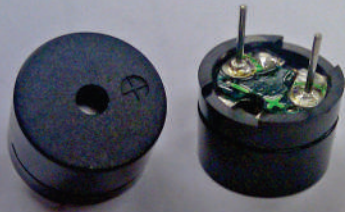
# MAGNETIC TRANSDUCER BUZZERS



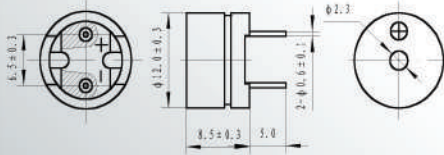
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7

Buzzer /7D – ET1220P



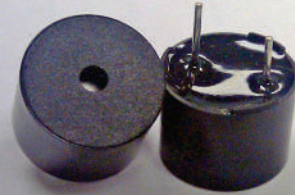
Material & Dimensions



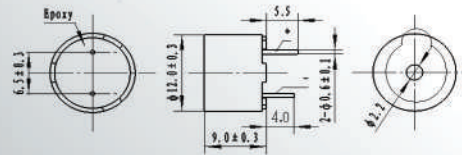
Electrical Characteristics

Rated Voltage	1.5	Vo-p
Operating Voltage	1~2	Vo-p
Resonant Frequency	048	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤40	mA
Operating Temperature	-20~+70	°C
Storage Temperature	30~+80	°C

Buzzer /20D – ET1224P



Material & Dimensions



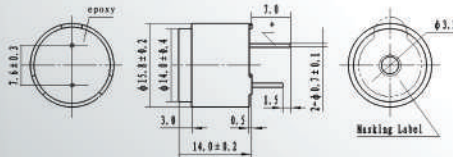
Electrical Characteristics

Rated Voltage	5	Vo-p
Operating Voltage	3~7	Vo-p
Resonant Frequency	2400	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤40	mA
Operating Temperature	-40~+70	°C
Storage Temperature	-40~+80	°C

Buzzer /21D – ET1620P



Material & Dimensions



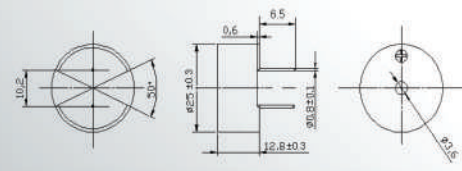
Electrical Characteristics

Rated Voltage	5	Vo-p
Operating Voltage	3~7	Vo-p
Resonant Frequency	2048	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤40	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+75	°C

Buzzer /22D – ET2510P



Material & Dimensions

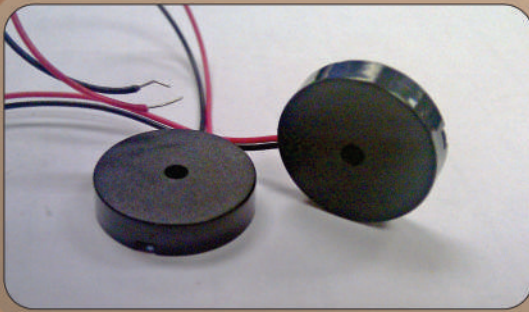


Electrical Characteristics

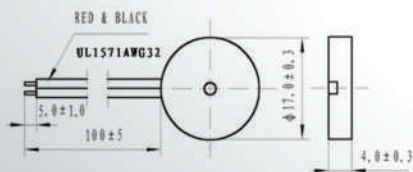
Rated Voltage	12	Vo-p
Operating Voltage	9~16	Vo-p
Resonant Frequency	1000	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤40	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

# PIEZO TRANSDUCER BUZZERS

Buzzer /10D – PT1740W



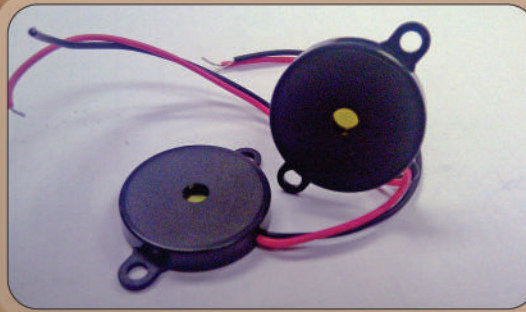
Material & Dimensions



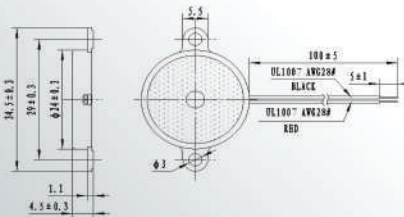
Electrical Characteristics

Rated Voltage	3	Vp-p
Operating Voltage	1~20	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥75	dB
Current Consumption	≤3	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C

Buzzer /11D – PT2440W



Material & Dimensions



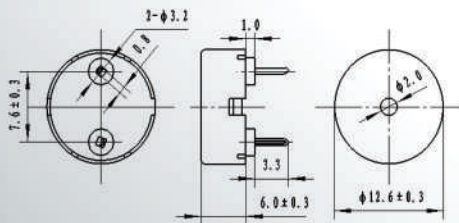
Electrical Characteristics

Rated Voltage	10	Vp-p
Operating Voltage	1~30	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥85	dB
Current Consumption	≤5	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C

Buzzer /16D – PT1340P



Material & Dimensions



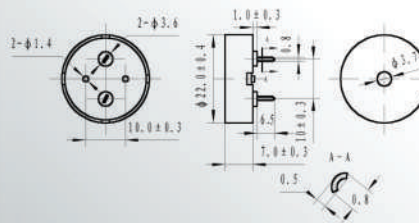
Electrical Characteristics

Rated Voltage	3	Vp-p
Operating Voltage	1~30	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥75	dB
Current Consumption	≤3	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /17D – PT2240P



Material & Dimensions



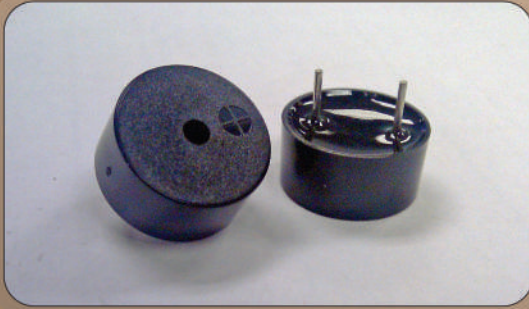
Electrical Characteristics

Rated Voltage	12	Vp-p
Operating Voltage	1~20	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥90	dB
Current Consumption	≤5	mA
Operating Temperature	-20~+60	°C
Storage Temperature	-30~+70	°C

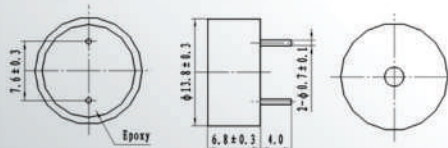


# PIEZO TRANSDUCER BUZZERS

Buzzer /18D – PT1440PE



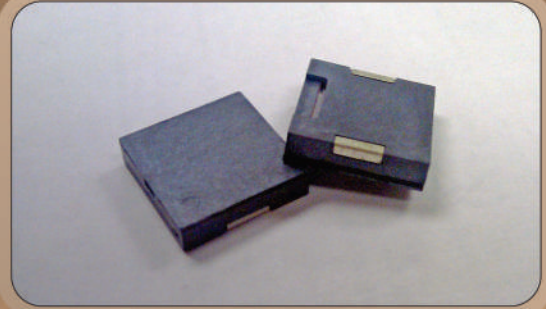
Material & Dimensions



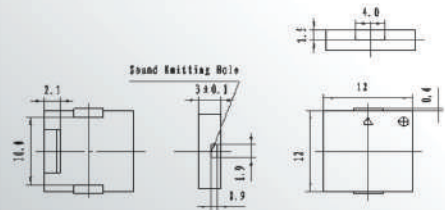
Electrical Characteristics

Rated Voltage	5	Vp-p
Operating Voltage	1~25	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥85	dB
Current Consumption	≤5	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /23D – PT1240S



Material & Dimensions



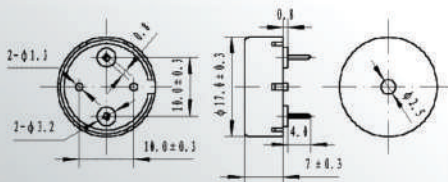
Electrical Characteristics

Rated Voltage	3	Vp-p
Operating Voltage	1~25	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥75	dB
Current Consumption	≤5	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C

Buzzer /28D – PT1740P



Material & Dimensions



Electrical Characteristics

Rated Voltage	5	Vp-p
Operating Voltage	1~30	Vp-p
Resonant Frequency	4000±500	Hz
Sound Output at 10cm	≥85	dB
Current Consumption	≤2	mA
Operating Temperature	-20~+70	°C
Storage Temperature	-30~+80	°C



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## dBace Buzzer Cross-Reference

Electrocomp No.	dBace No.	Murata	East Ningbo	dB	Kingstate	Hitpoint	Competition
BUZZER/1D	EB1223P		EMX-7T05SP	TDB05	KXG1205C	PB-12N23P-05Q	B26-5VDC
BUZZER/2D	EB1223PE		EMX-7T12SP	TDB12	KXG1212C	PB-12N23P-12Q	B26-12VDC
BUZZER/3D	PBC2433W-90	PKB245WH3301	EFM-475	2155120	KPEG200	PK-21N30WQ	B10-12VDC
BUZZER/4D	PBC4028P-24						
BUZZER/5D	PBC3135W-24					PL-27N35W-24VQ	
BUZZER/6D	PBC1440P		-EFM-250	3254120	KPEG164	PK-12N40PE-TQ	
BUZZER/7D	ET1220P		EMX-2T01P	DB111	KXG1201P1-1-N	PB-1220PFQ	DB-111G
BUZZER/8D	PBC4228WA						
BUZZER/9D	PBC2335P	PKB245PCH3601-B0	EFM-260	2654120	KPEG228	PK-21N30PQ	PKB245PC-3601
BUZZER/10D	PT1740W	PKM17EWH4000		67PZ17400	KPEG150	PT-1550W	PKM35-4A0
BUZZER/11D	PT2440W		TFM-19	59PZ24409	KPEG110	PT-2038W	PKM11-4A0
BUZZER/12D	MB2340P-12		EMX-4B12P	6651120	KSG3212		SMB12
BUZZER/13D	MB2640W-12		EMX-6B12L	10451120			RMB12
BUZZER/14D	EB9627P			MDB05	KXG0905C		
BUZZER/15D	EB1623P		EMX-8T06SP	HDB06	KXG1606C	PB-16N23P-05	
BUZZER/16D	PT1340P	PKM13EPYH-4002-B0	EFM-250DN	110PZ13400	KPEG169	PT-1245P-P7.5	
BUZZER/17D	PT2240P	PKM22EPPH4001-B0	TFM-29	60PZ22400	KPEG112	PT-2040P	PKM22EPP-4001
BUZZER/18D	PT1440P		EFM-250D	65PZ14400	KPEG166	PT-1240PE	
BUZZER/19D	EPBC3035P		EFM-472A				
BUZZER/20D	ET1224P		EMX-7T05PD	DBX05	KXG1205P		
BUZZER/21D	ET1620P		EMX-8T06P	GDX05	KXG1606	PT-1224PE-05	
BUZZER/22D	ET2510P			TDX06		PB-1622PQ	
BUZZER/23D	PT1240S	PKLCS1212E4001	SFM-1240-03	189PZ12400			
BUZZER/24D	EB1323S1		SFM-1324S05	STDB05	KTG1205C	PB-12N24M-05	
BUZZER/25D	EB1323S		SFM-1224B	SUDB05	KTG1205CL		
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