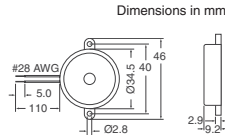


Piezo Telephone Ringer



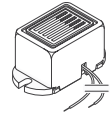
Sound Pressure Level	Electrostatic Capacitance (@ 120Hz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each					CUI Part No.
				1	10	100	500	1,000	
81dB @ 1.1kHz	43,000pF	30V p-p	102-1132-ND	1.92	1.74	1.40	1.16	1.01	CEP-1141



9-15VDC Buzzer



Operates from 9-15VDC.
Case size: 23mm(L) x 15mm(W) x 13.5mm(H) with mounting hole centers at 27mm.
140CU-ND \$3.23/1; \$29.63/10

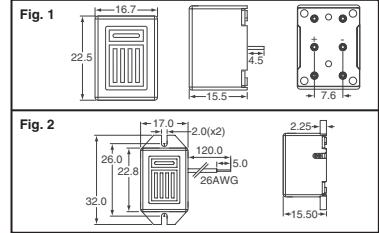


Solid State Buzzers

Dimensions in mm



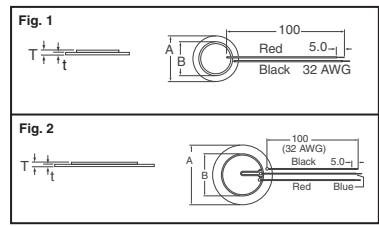
Fig.	Input Voltage Range	SPL (dB) min. @ Voltage	Current Consumption (Maximum)	Digi-Key Part No.	Price Each					CUI Part No.
					1	10	100	500	1,000	
1	20 - 28VDC	76 @ 24VDC	20mA @ 24VDC	102-1651-ND	4.76	4.32	3.46	2.89	2.51	CS-3224
	20 - 28VDC	76 @ 24VDC	24mA @ 24VDC	102-1649-ND	4.57	4.16	3.33	2.78	2.42	CS-3624
	8 - 16VDC	79 @ 12VDC	30mA @ 12VDC	102-1648-ND	4.57	4.16	3.33	2.78	2.42	CS-3612
	4 - 8VDC	75 @ 6VDC	45mA @ 6VDC	102-1647-ND	4.57	4.16	3.33	2.78	2.42	CS-3606
2	2 - 4VDC	75 @ 3VDC	50mA @ 3VDC	102-1646-ND	4.57	4.16	3.33	2.78	2.42	CS-3603



Piezoelectric Ceramic Buzzer Elements



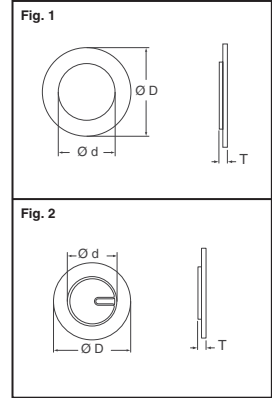
Dimensions - mm				Resonant Frequency (kHz)	Resonant Impedance (Maximum Ω)	Electrostatic Capacity (@ 1kHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each					CUI Part No.
A	B	T	t						1	10	100	500	1,000	
Fig. 1 - Standard Type														
20.00	14.60	0.43	0.20	6.5	350	13,000pF	30V p-p	102-1126-ND	1.14	1.04	.84	.69	.61	CEB-20D64
27.00	19.80	0.53	0.25	4.6	250	16,000pF	20V p-p	102-1127-ND	1.23	1.13	.90	.75	.66	CEB-27D44
35.00	25.00	0.53	0.25	2.6	300	30,000pF	30V p-p	102-1128-ND	1.60	1.46	1.17	.97	.85	CEB-35D26
44.00	25.00	0.23	0.10	0.6	1,000	70,000pF	20V p-p	102-1170-ND	1.82	1.66	1.33	1.10	.96	CEB-44D06
Fig. 2 - Feed Back Type														
20.00	15.00	0.43	0.20	6.4	400	10,000pF	30V p-p	102-1129-ND	1.32	1.21	.97	.81	.70	CEB-20FD64
27.00	20.00	0.51	0.25	4.5	500	16,000pF	30V p-p	102-1130-ND	1.36	1.24	.99	.82	.72	CEB-27FD44
35.00	25.00	0.53	0.25	2.9	500	25,000pF	30V p-p	102-1131-ND	1.76	1.60	1.28	1.07	.93	CEB-35FD29



Piezo Buzzer Elements



Fig.	Dimensions - mm			Resonant Frequency (kHz)	Capacitance (pF)	Max. Input Voltage (Vpp)	Digi-Key Part No.	Price Each				Projects Unlimited Part No.
	D	d	T					1	10	100	500	
1	9.9	7.4	0.12	7	10,000	15	668-1000-ND	1.08	.99	.79	.66	AB1070B
	12	9	0.21	9	8,000	30	668-1001-ND	1.08	.99	.79	.66	AB1290B
	15	8.4	0.2	4.1	8,000	15	668-1002-ND	1.08	.99	.79	.66	AB1541
	15	8.9	0.21	4.8	7,500	20	668-1003-ND	1.08	.99	.79	.66	AB1548B
	20	15	0.1	2.5	80,000	30	668-1004-ND	1.08	.99	.79	.66	AB2025B
	20	15	0.28	4	25,000	30	668-1006-ND	1.08	.99	.79	.66	AB2040B
	20	15	0.42	6.5	14,000	30	668-1007-ND	1.08	.99	.79	.66	AB2065B
	20	15	0.43	7.2	10,000	30	668-1008-ND	1.08	.99	.79	.66	AB2072S
	27	14.6	0.53	3.4	13,000	30	668-1012-ND	1.08	.99	.79	.66	AB2734B
	27	20	0.23	2	45,000	30	668-1009-ND	1.08	.99	.79	.66	AB2720B
	27	20	0.26	2.6	50,000	30	668-1011-ND	1.08	.99	.79	.66	AB2726B
	27	20	0.5	4.6	16,000	20	668-1013-ND	1.08	.99	.79	.66	AB2746B
	35	25	0.53	2.6	30,000	30	668-1015-ND	1.80	1.63	1.31	1.09	AB3526B
	41	32	1.5	1.3	150,000	30	668-1017-ND	1.80	1.63	1.31	1.09	AB4113B
50	44	2.2	1.2	65,000	30	668-1190-ND	3.05	2.78	2.23	1.85	APS4812B-LW100-R	
2	20	15	0.21	3.7	20,000	30	668-1005-ND	1.08	.99	.79	.66	AB2036AF
	35	25	0.58	2.9	25,000	30	668-1016-ND	1.80	1.63	1.31	1.09	AB3529BF



Magnetic Audio Indicators

Dimensions in mm

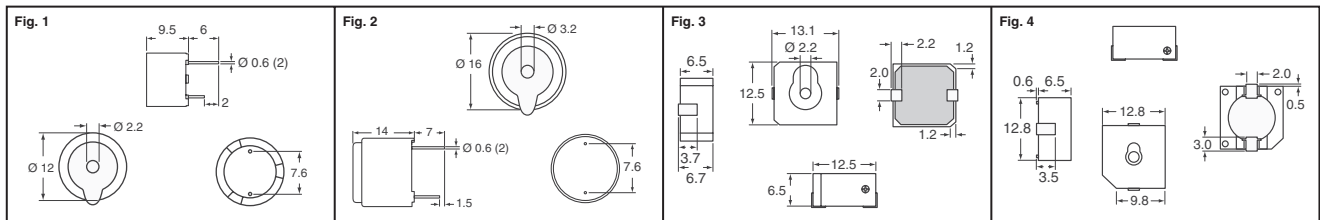


Fig.	Operating Voltage (VDC)	Rated Voltage	Resonant Frequency (kHz)	SPL (dB)	Rated Current (mA)	Terminal	Digi-Key Part No.	Price Each				Projects Unlimited Part No.
								1	10	100	500	
1	8.0 - 16	12	2.3	85	30	PCB Pin	668-1018-ND	3.92	3.57	2.86	2.37	AI-1223-TWT-12V-R
	3.0 - 7.0	5	2.3	85	30	PCB Pin	668-1019-ND	3.92	3.57	2.86	2.37	AI-1223-TWT-5V-R
2	8.0 - 15	12	2.2	85	30	PCB Pin	668-1020-ND	4.26	3.88	3.10	2.58	AI-1622-TWT-12V-R
	4.0 - 8.0	5	2.2	85	30	PCB Pin	668-1021-ND	4.26	3.88	3.10	2.58	AI-1622-TWT-5V-R
3	8.0 - 15	12	2.4	85	30	SMD	668-1022-5-ND	7.93	7.21	5.77	4.79	SMI-1324-TW-12V-R
4	4.0 - 7.0	5	2.4	88	30	SMD	668-1023-5-ND	7.93	7.21	5.77	4.79	SMI-1324-TW-5V-2-R

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