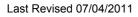
SPEAKERS & SOUNDERS



BENCH LAMPS	2	2300
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VOICE & MUSIC MODULES	2	2300
WIRELESS DOORBELLS	2298 - 2	2299



SPEAKERS

ULTRA SLIM SUBMINIATURE LOUDSPEAKER a subminiature speaker measuring just 40mm in diameter with an overall depth of just 9.5mm. Paper cone and alnico magnet. Solder tag connection.

Technical Specification Dimensions 40mm(w) x 9.5mm (d) Impedance 8Ω Max. power (rms) 0 25W Frequency range 450Hz - 5kHz Magnet weight 1.5g



PRICE CODE TYPE 800-265 Ultra Slim Submin Loudspeaker 40mm 8Ω..... £1.99

MINIATURE LOUDSPEAKER a miniature speaker for use in small portable equipment. Fitted with paper cone and ferrite magnets. Solder tag connection. Both types 66mm diameter, 21mm deep. Handling capacity 300mW.

CODE	ТҮРЕ	PRICE
800-269	Miniature Loudspeaker 66mm 8Ω	£1.79
800-270	Miniature Loudspeaker 66mm 64Ω	£1.79

ULTRA SLIM PAPER CONE LOUDSPEAKER these miniature ultra slim loudspeakers are just 17mm in thickness with paper cones and suitable for a wide range of applications. 50mm diameter with a wide frequency response that enables the speakers to be used for speech, music or high frequency alarm output. Fitted

with a flange to assist mounting and solder tag termination. Available in 8Ω and 64Ω options.



CODE TYPE

Ultra Slim Paper Cone L/speaker 50mm 8 Ohm. £1.49 29-0414 29-0416 Ultra Slim Paper Cone L/speaker 50mm 64 Ohm £1.49

ULTRA SLIM MYLAR CONE LOUDSPEAKER these miniature ultra slim loudspeakers are just 17mm in thickness. With Mylar cones and suitable for a wide range of applications. Wide frequency response enables the speakers to be used for speech, music or high frequency alarm output. 50mm diameter, fitted with flange to

assist mounting and solder tag termination. Available in 8Ω and 64Ω options.



PRICE

CODF TYPF 29-0410 Ultra Slim Mylar Cone L/speaker 50mm 8 Ohm... £1.89 29-0412 Ultra Slim Mylar Cone L/speaker 50mm 64 Ohm. £1.89

WEATHERPROOF LOUDSPEAKER a mylar cored loudspeaker with ferrite magnet for use in exterior environments or where moisture is a problem as the mylar core is unaffected by water. Ideal for use as sounders or warning devices where a wide frequency response is required, door entry systems etc. Nominal 8 ohms impedance, max power (rms) 0.6W,

frequency range 350-4.5KHz. 66mm diameter x 20mm depth.



CODE TYPE

SPK150 Weatherproof Loudspeaker 66mm 8Ω..... £2.45 29-0408 Weatherproof Loudspeaker 66mm 64Ω..... £2.45

MINI LOUDSPEAKER WITH PLASTIC DIAPHRAGM 5cm a high quality 5cm round speaker particularly well suited to outdoor applications and where ambient conditions are generally unfavourable.

Magnetically shielded with a plastic diaphragm and metal basket. A full-range driver with good efficiency

and broad frequency response and good voice reproduction. It is extremely small in size due to a neodymium magnet system. Typical applications include electronic devices and outdoor systems.



Technical Specification

Rated power:	2W
Maximum power:	3W
Nominal impedance:	8Ω
Frequency response:	-10dB 180-17000Hz
Mean sound pressure level:	86dB
Resonance frequency fs:	300Hz
Voice coil diameter:	10mm
Cutout diameter:	46mm
Net weight:	48g
Protective system:	IP65

CODE TYPE

29-0418 Mini Loudspeaker with Plastic Cone 5cm 8 Ohm. £3.50

MINI MYLAR CONE LOUDSPEAKERS these miniature speakers feature Mylar cones and are suitable for a wide range of applica-

tions such as speech and music modules for greeting cards, etc. With a low profile and high sound output level.



PRICE

Technical Specification

	29-0334	29-0336
Rated impedance:	32Ω ±15%	8Ω ±15%
Nominal power:	0.25W	1W
Maximum power:	0.5W	1.5W
Resonant frequency:	500Hz ±25Hz	350Hz ±20Hz
Frequency range:	0 to 5.5kHz	0 to 20kHz
Sound output level @ 0.1W/0.1m:	92dB ±3dB	94dB ±3dB
Speaker ø:	45mm	50mm
Overall thickness:	5.8mm	7.6mm
Operating temperature:	–20°C to +60°C	-10°C to +40°C
Storage temperature:	-30°C to +70°C	-20°C to +60°C
Weight:	12g	13.2g
CODE TYPE		PRICE

29-0334 Mini Mylar Cone L/Speaker ABS-209 45mm...... £1.69 29-0336 Mini Mylar Cone L/Speaker ABS-210 50mm...... £3.39

MINI RECTANGULAR LOUDSPEAKER a range of miniature

29-0360

4Ω ±15%

400Hz ±20%

93dB ±3dB

200Hz to 20kHz

40 x 20 x 5.8mm

–20°C to +60°C

-30°C to +70°C

2W

3W

7.6g

loudspeakers that are available in 4Ω or 8Ω impedance. With high power handling capacity and a low profile. Size 40 x 20mm.

Technical Specification

	29-0358
Rated impedance:	8Ω ±15%
Nominal power:	2W
Maximum power:	3W
Resonant frequency:	400Hz ±20%
Frequency range:	200Hz to 20kHz
Sound output level:	93dB ±3dB
Dimensions:	40 x 20 x 5.8mm
Operating temperature:	-20°C to +60°C
Storage temperature:	–30°C to +70°C
Weight:	7.6g

CODE TYPE

Mini Loudspeaker Rectangular 40 x 20mm 80hm. £3.39 29-0358 29-0360 Mini Loudspeaker Rectangular 40 x 20mm 40hm. £3.59

TEL. 01243 842424 FAX. 01243 842525

PRICE

PRICE

MINI RECTANGULAR LOUDSPEAKER a 4Ω loudspeaker that features high power handling capacity. With high sound pressure level and a frequency range up to 20kHz in an ABS housing.

Technical Specification

Rated impedance:
Nominal power:
Maximum power:
Resonant frequency:
Frequency range:
Sound output level:
Dimensions :
Weight:

4Ω ±15% 2W 4W 380Hz ±20% 0Hz to 20kHz 84dB 40 x 28.3 x 11.5mm 12g



PRICE

CODE	ТҮРЕ	PRICE
29-0332	Mini Loudspeaker Rectangular 40 x 28mm	£5.50

MINI RECTANGULAR LOUDSPEAKER a miniature loudspeaker that has mounting lugs and flying leads. It has high sound pressure level with a frequency range up to 20kHz. Mounting lugs hole

diameter 5.8mm and flying lead length 180mm. Molex connectors.

•	
Technical Specification	
Rated impedance: Nominal power:	8Ω ±15% 1W
Maximum power:	2W
Resonant frequency:	700Hz ±20%
Frequency range:	0Hz to 20kHz
Sound output level:	93dB ±3dB
Dimensions (excluding lugs):	57.5 x 23 x 14.85mm
Weight:	38g

CODE TYPE

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29-0392 Mini L/Speaker Rectangular with Mounting Lugs. £7.99

FULL RANGE LOUDSPEAKER 7.5cm a quality and good sounding full range loudspeaker. Suitable for all applications with a foam edged paper cone and chrome HF dome.

Technical Specification

reenneur opeenneurion		
Impedance:	8Ω	
Power rating:	10W	
Frequency response:	120Hz - 16kHz	
Resonant frequency:	120Hz	
Sensitivity 1W:	1m 88dB	
Magnet weight:	150g	
Overall weight:	415g	
Dimensions:	78 (dia.) x 45mm	
		DRICE

CODE PRICE ΤΥΡΕ 29-0420 Full Range Loudspeaker 7.5cm 10W..... £5.99

FULL RANGE LOUDSPEAKER 5cm a high quality 5cm full range speaker particularly well suited to outdoor applications. It has a moulded plastic cone and plastic basket and is absolutely corro-

sion-resistant and waterproof due to encased magnet and silicon-coated leads. With broad frequency response and good voice reproduction it's typical applications include outdoor systems and electronic devices. CE approved.

Technical Specification

Rated power:	2W
Maximum power:	3W
Nominal impedance:	8Ω
Frequency response:	–10dB 180-17000Hz
Mean sound pressure level:	86dB
Resonance frequency fs:	300Hz
Voice coil diameter:	10mm
Cutout diameter:	46mm
Net weight:	48g
Protective system:	IP65
CODE TYPE	

PRICE CODE 29-0406 Full Range Loudspeaker 5cm 8 Ohm..... £8.45

EARPHONES

MAGNETIC AND CRYSTAL EARPHONES a range of traditional earphones fitted with 1.8m of twin cable and terminated with a 3.5mm jack plug. Available in either magnetic(low impedance 8Ω) or crystal(high impedance $3M\Omega$).

	1	N Som
CODE	TYPE	PRICE
800-130	Earphone Magnetic 8Ω	£0.79
800-135	Earphone Crystal 3MΩ	£1.89

ACTIVITY STEREO EARPHONES trendy stereo earphones, with soft flexible 'earhook' to keep the earpiece in place. Ideal for sports or at the gym. Features soft, flexible earhook, mylar speakers with anisotropic ferrite magnets

Specification Cable 1.2m Speaker size 15mmØ Impedance 32 ohms Frequency response 20Hz - 20kHz	90
Sensitivity 105dB @ 1kHz Connector 3.5mm stereo	
CODE TYPE	PRICE

CODE	TIFE	FRICE
29-0318	Activity Stereo Earphones	£3.99

ELECTRONIC BUZZERS

MINI PCB ELECTRONIC BUZZERS these electronic buzzers offer a high but rich sound. They are ideal for all applications and can be applied to telephone times, calling devices, time pieces electronic toys, safety equipment. The base of the buzzer is potted to maximise protection against flux contamination and a masking label is included over the sound emission hole to permit board cleaning. Supplied with PCB pins for direct mounting to PCBs and encapsulated in a low profile housing. Suitable for inclusion in miniature electronics instrumentation. Available in 5, 12V operating versions. 7.6mm pitch. Dimensions 12mm dia x 7.5(H)mm.



//

lechnical Specification			
Order code:	29-0390	29-0388	
Rated voltage:	12V DC	5V DC	
Operating voltage max.:	3 - 15V DC	3 - 8V DC	
Sound output:	88dB	85dB	
Frequency:	2300 ±300Hz	2300 ±300Hz	
Response time:	50ms	50ms	
Housing material:	PST	PST	
Operating temperature:	-20°C to +85°C	-20°C to +85°C	
Storage temperature:	-20°C to +88°C	-20°C to +88°C	
Pitch:	7.6mm		
Dimensions:	12mm diameter 7.5	5mm(H)	
Weight:	2g	2g	
CODE TYPE			PRIC

CODE	ТҮРЕ	PRICE
29-0388	Mini PCB Eectronic Buzzer 5Vdc	£1.19
29-0390	Mini PCB Eectronic Buzzer 12Vdc	£1.19

FREE PARKING FOR 2 HOURS OUTSIDE OF OUR SHOP

E-mail: sales@squirestools.com - www.squirestools.com

ELECTRONIC BUZZER a range of miniature high output electron-

ic buzzers which incorporate an internal oscillator drive circuit. Supplied with PCB pins for direct mounting to PCB's.

Technical Specification

recimical opecific	anon		
	800-010	800-015	
Rated Voltage	6V dc	12V dc	
Operating Voltage	4-8V dc	7-15V dc	
Current	35mA	35mA	
Sound Output	85dB @ 60cm		
Frequency	3.6kHz		
Weight	17.0g		
Operating Temp.	-20°C to +60°C		
CODE TYPE			PRICE
800-010 Electro	nic Buzzer 6 V o	dc	£1.49
800-015 Electro	nic Buzzer 12V	dc	£1.49

ELECTRONIC BUZZERS a range of compact, low-cost electronic buzzers. Available with either flying leads (10cm long) or PCB mounting pins. Resonant frequency is 400Hz and available in 3V, 6V or 12V operating versions.

Black ABS case material.



Technical S	pecification			
Operating vo	ltage:	2V to 5V DC or	4V to 8V DC or	9V to 15V
Rated voltag	e:	2V to 5V type		
		4V to 8V type		
		9V to 15V		
Max rated cu	irrent:	2V to 5V type	-	
		4V to 8V type	-	
		9V to 15V	30mA @ 12V D	
Min sound pr	ressure level:	2V to 5V type	-	
		4V to 8V type	<u> </u>	
-		9V to 15V	80dB @ 12 DC	/20cm
Resonant fre		400Hz ± 100Hz		
Operating ter	•	-20°C to +60°0	j.	
Weight PCB		10g		
Dimensions:	lead:	8g	v 17 v 15mm with	h DCB nina an
Dimensions.		7 6mm centres	x 17 x 15mm wit	IT PCB pins on
			5 x 17 x 15mm w	ith 100mm
		leads		
			27.5mm, 2mm d	lia fiving hole
		inting centres -	27.5000, 2000	e e
CODE 1	ГҮРЕ			PRICE
29-0376 E	Electronic Bu	izzer 3Vdc with	n Leads	£1.69
29-0378 E	Electronic Bu	zzer 3Vdc PC	B Mounting	£1.69

29-0378	Electronic Buzzer 3Vdc PCB Mounting	£1.69
29-0380	Electronic Buzzer 6Vdc with Leads	£1.69
29-0382	Electronic Buzzer 6Vdc PCB Mounting	£1.69
29-0384	Electronic Buzzer 12Vdc with Leads	£1.69
29-0386	Electronic Buzzer 12Vdc PCB Mounting	£1.69

BUZZERS miniature transistor oscillator buzzers with flying leads or without leads for PCB mounting, offering long life, maximum efficiency with minimum current dissipation. Operating voltages:- 3V, 6V & 12V dc.

Technical Specification

3V type	2-5V dc	
6V type	4-9V dc	
12V type	9-20V dc	
Current	25mA	
Frequency	400hZ	
Sound outp	out 75dB @ 30cm	
CODE	ТҮРЕ	PRICE
800-100	Transistor Buzzer 3V With Leads	£1.99
		~1.00
800-105	Transistor Buzzer 6V With Leads	£1.99
800-105 800-110		
	Transistor Buzzer 6V With Leads	£1.99 £1.99
800-110	Transistor Buzzer 6V With Leads Transistor Buzzer 12V With Leads	£1.99 £1.99 £1.99

ELECTRONIC BUZZERS a range of electronic buzzers offering a high but rich sound. Supplied with 20cm flying leads and 2mm fixing holes in base.



6V DC	29-0324	
12V	29-0326	
75dB		
20mA		
<50ms		
-20°C to +6	60°C	
34(L) x 16((W) x 15(H)mm	
10g		
		PRICE
	12V 75dB 20mA <50ms -20°C to +4 34(L) x 16	12V 29-0326 75dB 20mA <50ms -20°C to +60°C 34(L) x 16(W) x 15(H)mm

CODE

CODL		
29-0324	Electronic Buzzer with Leads 6Vdc	£1.99
29-0326	Electronic Buzzer with Leads 12Vdc	£1.99

ELECTRONIC BUZZERS WITH LEADS a range of electronic buzzers offering a high but rich sound. Supplied with 20cm flying leads and 2mm fixing holes in base. Available in 3, 6 and 12V operating versions.

Technical Specification

3V DC
6V DC
12V DC
80dB
40mA
<50ms
–20°C to +60°C
25mm diameter x 18mm (height)
20g

CODF TVDE

CODE	ТҮРЕ	PRICE
29-0352	Electronic Buzzer with Leads 3V	£1.89
29-0354	Electronic Buzzer with Leads 6V	£1.89
29-0356	Electronic Buzzer with Leads 12V	£1.95

PULSATING BUZZER a high pitched buzzer with a pulsating sound. Flying lead connection, operating voltage 1 - 2Vdc, 15mA. Sounds similar to a UK pelican crossing sound signal.



CODE	ТҮРЕ	PRICE
800-055	Pulsating Buzzer 1 - 2Vdc 15mA	£3.99

ELECTRONIC BUZZERS Electronic musical alarm unit which plays seven different tunes (full verse of each) after each touch of the leads.75mm leads.black plastic body with metal cap.

Technical Sp	ecification	
Output	80dB	
Frequency	500Hz	
Power	9Vdc	
Current	50mA	1
Centres	34m	
Dims	28(dia) x 20mm	/

CODE TYPE 561-095 Electronic Musical Alarm..... £3.50

PRICE

TEL. 01243 842424 _ FAX. 01243 842525

PIEZO BUZZERS

PIEZO ELEMENT 27mm a 27mm diameter piezo element that comes with 200mm flying leads. Reliable and lightweight with low power consumption. Just 0.52mm thick.

Technical Specification Rated voltage (max.): Capacitance: Resonant frequency: Operating temperature: Storage temperature: Overall diameter: Overall thickness: Wire type: Lead length:

30V pk-pk 20000pF ±30% 4.2kHz ±500Hz -20°C to +60°C -20°C to +70°C 27mm 0.52mm AWG28 UL1095 200mm

CODE TYPE

29-0344 Mini Piezo Element with Leads 4200Hz 27mm.... £1.10

MINIATURE PIEZO BUZZER a miniature piezo buzzer with flying leads. Offers a rich high output sound with low power consumption.

Technical Specification 3-30V dc Voltage Sound output 90dB @ 50cm Current @ 12V 10mA 2.7kHz Frequency



TYPF CODE

Piezo Buzzer 3-30V dc..... £1.90 **BZP115**

PRICE

PRICE

PIEZO INDICATOR a piezo audio indicator that is epoxy sealed at base and suitable for PCB mounting. It has a built-in oscillating circuit and is wave solderable and washable with low power consumption.

Technical Specification	
Rated voltage:	12V DC
Operating voltage:	3-16V DC
Rated current at rated voltage:	7mA
Sound output at rated voltage:	>80dB
Resonant frequency at rated voltage:	4000 ±500Hz
Operating temperature:	–20°C to +70°C
Storage temperature:	–30°C to +80°C
Housing material:	Noryl
Weight:	1g

CODE	ТҮРЕ	PRICE
29-0320	PCB Piezo Indicator 3 - 16Vdc	£2.99

PIEZO INDICATOR 95dB a Piezo audio indicator that is epoxy sealed at base and suitable for PCB mounting. It has a built-in oscillating circuit and is wave solderable and washable with low power consumption. 12V operation.

Technical Specification

Rated voltage: Operating voltage: Rated current at rated voltage: Sound output at rated voltage: Resonant frequency at rated voltage: Tone: Operating temperature: Storage temperature: Weight:



15mA >95dB 3400 ±500Hz Continuous -20°C to +60°C -30°C to +70°C 4a

CODE TYPF 29-0400

PRICE Piezo Indicator 95dB..... £2.99

FREE PARKING FOR 2 HOURS **OUTSIDE OF OUR SHOP**

PCB ELECTRO MECHANICAL PIEZO INDICATOR a piezo audio

..

indicator that is epoxy sealed at base and suitable for PCB mounting. It has a built-in oscillating circuit and is wave solderable and washable with low power consumption. Available in two voltage ratings 6 and 12V.

Technical Specification



CODE TYPE		
Weight:	2g	
Housing material:	Noryl	
Storage temperature:	–30°C to +	-80°C
Operating temperature:	–20°C to +	-70°C
Resonant frequency at rated voltage:	2300 ±500	
Sound output at rated voltage:	>85dB	
Rated current at rated voltage:	30mA	
	29-0368	8 - 16V DC
Operating voltage:	29-0366	4 - 8V DC
	29-0368	12V DC
Rated voltage:	29-0366	6V DC

CODE	TYPE	PRICE
29-0366	PCB Electro Mech Piezo Indicator 6Vdc	£2.79
29-0368	PCB Electro Mech Piezo Indicator 12Vdc	£2.79

CT PIEZO SOUND GENERATOR this piezoelectric sound generator module has a reduced thickness and superior mountability while ensuring good sound pressure characteristics. It is an economical compact, low profile and low power 3V piezo surface mount sounder having the sound output hole in its side surface. It has reliable Solid State Piezoelectric Technology, it's height above

the board is just 2.5mm and the sound port is on the side wall. Requires drive circuit. Dimensions, 16 x 16 x 2.5mm.



Technical Specification

Rated voltage:	12V peak to peak square wave	
Allowable voltage max.:	30V peak to peak square wave	
Current consumption:	2mA /12V peak to peak square wave	
Sound output:	>85dB /12V peak to peak square wave	
Frequency:	4.0kHz ±5kHz	
Housing material:	PPS	
Weight:	1.5g	
Operating temperature:	-20°C to +80°C	
Storage temperature:	-20°C to +100°C	
CODE TYPE		PRICE

CODE TYPE 29-0322 CT Piezo Sound Generator..... £1.79

80dB

1g

-20°C to +60°C

-30°C to +70°C

MINI PCB PIEZO TRANSDUCER this piezo transducer is able to generate a range of audible tones and frequencies when energised by a 12V peak square wave. Provided it is mounted rigidly in the prescribed manner, outputs of up to 80dB can be achieved. Ideal for toys, clocks and watches, calculators and electronic games, using the transducer in place of a speaker and suitable for use in professional, commercial and industrial applications. It is durable in domestic appliances and is mounted on a PCB. Requires drive circuit. Dimensions: 16(dia) x 8mm (depth). Not suitable for speach and music.

Technical Specification

Rated voltage: Allowable voltage max .: Current consumption: Sound output: Frequency: Housing material: Weight: Operating temperature: Storage temperature: CODF TYPF

12V peak to peak 30V peak to peak 4mA at 4.0KHz 4.0 4± 0.5KHz ABS / black

29-0362 Mini PCB Piezo Transducer.....



PRICE £0.59

E-mail: sales@squirestools.com - www.squirestools.com

MINI PIEZO TRANSDUCER this piezo transducer is able to generate a range of audible tones and frequencies when energised by a 12V peak square wave. Provided it is mounted rigidly in the prescribed manner, outputs of up to 80dB can be achieved. Ideal for toys, clocks and watches, calculators and electronic games, using the transducer in place of a speaker and suitable for use in professional, commercial and industrial applications. It is durable in domestic appliances and is mounted on a PCB. Requires drive

circuit. Available in 12.5, 23 and 30mm diameter options with flying leads. Not suitable for speach and music.



Technical Specifica	<u>tion</u>		
Order code	29-0338	29-0340	29-0342
Rated voltage:	12V peak to peak	0.15V peak to peak	12V peak to peak
Allowable voltage max.:	25V peak to peak	0.3V peak to peak	30V peak to peak
Current consumption:	2mA at 4.0KHz	3mA at 4.0KHz	8mA at 4.0KHz
Sound output:	75dB	80dB	80dB
Frequency:	4.0 4± 0.5KHz	4.0 4± 0.5KHz	3.6 4± 0.5KHz
Housing material:	ABS / black	ABS / black	ABS / black
Weight:	1.3g	1g	3g
Operating temperature:	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Storage temperature:	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
CODE TYPE			DDIC

CODE TYPE	PRICE
29-0338 Mini Piezo Transducer 12.5mm	£0.99
29-0340 Mini Piezo Transducer 23mm	£0.99
29-0342 Mini Piezo Transducer 30mm	£0.99

PCB PIEZO TRANSDUCER 1mA 80dB a piezo audio transducer that is epoxy sealed at base and suitable for PCB mounting. It is

wave solderable and washable with low power consumption. Available in black.

Technical Specification	
Rated voltage:	5V DC
Operating voltage:	1 - 20V DC PP
Rated current at rated voltage:	1mA
Capacitance:	13000 ±30%pF
Sound output at rated voltage:	>80dB
Resonant frequency at rated voltage:	4000 ±500Hz
Operating temperature:	–20°C to +70°C
Storage temperature:	–30°C to +80°C
Housing material:	Noryl
Weight:	1g
CODE TYPE	PRICE

29-0402 PCB Piezo Transducer 5Vdc..... £1.89

PCB PIEZO TRANSDUCER a piezo audio transducer that is epoxy sealed at base and suitable for PCB mounting. It is wave solderable and washable with low power consumption. Available

in two voltage ratings 6 and 12V. Please note: This transducer requires a drive circuit.

Technical Specification

Rated voltage: Operating voltage: Rated current at rated voltage: Capacitance: Sound output at rated voltage: Resonant frequency at rated voltage: Operating temperature: Storage temperature: Housing material: Weight:



9V DC 1 - 30V DC 3mA 17000 ±30%pF >85dB 4000 ±500Hz 20°C to +60°C 30°C to +70°C Norvl 3g

PRICE CODF TYPF 29-0370 PCB Piezo Transducer 9Vdc..... £2.90

UNCASED PIEZO TRANSDUCER an uncased miniature piezo transducer offering an ultra low profile. Ideal for use with speech and music modules as fitted to greetings cards and toys. Connection is by means of 95mm flying leads.



Technical Specification

Overall ulameter.	
Ceramic plate diameter:	
Overall thickness:	
Brass plate thickness:	
Resonant frequency:	
Resonant resistance:	
Capacitance:	

20mm 15mm 0.42mm excluding leads 0.21mm 6.8 ±0.7kHz LE 300Ω 15,000pF ±30%

PRICE CODE TYPE 29-0404 Uncased Piezo Transducer FT-20T-6A1..... £0.49

ELECTRO MAGNETIC SOUND GENERATOR a miniature electro-magnetic sound generator with a sealed base. Encapsulated in a low profile housing making them particularly suitable for inclusion in miniature electronics instrumentation. It is positive terminal marked and supplied with PCB pins for direct mounting to PCBs. Requires external drive circuit. Dimensions, 10 x 10 x 5mm, Operating voltage 12V.



PRICF

Technical Specification

Rated voltage:	12V
Operating voltage:	7-16V
Rated current:	±60mA
Coil resistance:	140 ±4mA
Sound output:	±85dB
Rated frequency:	2400Hz
Dimensions:	10 x 10 x 5mm
Operating temperature:	–40°C to +85°C

CODE TYPE

> 29-0008 Electro Magnetic Sound Generator 5V..... £0.89

> 8 OHM SPEAKER SOUND GENERATOR a low-cost, low power good quality sound generator that has been designed for use in toy and other applications. This very compact sound module is ideal for PCB fitting and produces a sound of up to 83dB. Suitable for soldering directly to a circuit board. Dimensions: 30mm (dia) x 11mm (depth).

Technical Specification

Rated power: Input power max .: Frequency range: Rated frequency: Rated impedance: Sound pressure level: Housing materia:I Operating temperature: Weight:

0.3W 700 - 5000Hz 1200 ±200Hz 8Ω 83dB ABS/black -20°C - +60°C 12g

0.15W



CODE	ТҮРЕ	PRICE
29-0348	8 Ohm Speaker Sound Generator	£1.49

FREE PARKING FOR 2 HOURS OUTSIDE OF OUR SHOP

2296

ELECTRO MECHANICAL PCB TRANSDUCER a mechanical

transducer that is suitable for PCB mounting. Small in size with high sound output and low power consumption.

Technical Specification

Rated voltage (square wave):
Operating voltage:
Rated current at rated voltage:
Resonant frequency:
Coil resistance:
Coil impedance at 2048Hz:
Operating temperature:
Storage temperature:
Housing material:
Weight:
0

1.5V p-p 1.3V p-p 15mA 2048Hz 42 ±6Ω 1200 -25°C to +70°C -30°C to +80°C Noryl SE1 2g

CODE	ТҮРЕ	PRICE
29-0350	PCB Piezo Transducer 1.5V	£1.49

SIRENS

MINI PIEZO SIREN a compact housed mini piezo sounder with a very loud 102dB output. Supplied with flying leads.

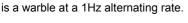
Operating voltage: Rated voltage: Current: Frequency: Sound output: Operating temperature:



CODE TYPE

29-0346 Mini Piezo Siren 102dB..... £5.99

MINIATURE PIEZO SIREN a compact high output piezo siren housed in a black ABS case. Output





PRICE

Technical Specification

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Operating frequencies:	2.5kHz and 3.5kHz
Operating voltage:	5V to 15V DC
Rated voltage:	12V DC
Current consumption:	200mA max @ 12V DC
SPL:	105dB @ 100cm (12V DC)
Tone/pulse rate:	1.2Hz
Dimensions:	57.5 x 44.5 x 40mm excluding bracket
Weight:	54g
-	-

CODE	TYPE	PRICE
29-0430	Miniature Piezo Siren 1Hz	£5.99

PIEZO SIREN a high power two tone piezo siren with a very loud warbling sound ideal for alarm

use. Supplied with mounting bracket and 450mm wire leads.

Technical Specification Frequency Current Sound output Temp range Dimensions



1.5-2.0 kHz 350mA at 12V 120 db at 1M -20°C to +60°C

L85 x W62 x H56mm CODE PRICE

CODE TYPE 800-802 Piezo Two Tone High Power Siren 12V DC SP7. £11.99

COMPACT PIEZO SIREN a compact high output piezo siren

housed in a black ABS case. Output is a warble at a 1Hz alternating rate.

Fitted with a swivel mounting bracket.

Technical Specification	on_
Operating frequencies: Operating voltage:	2.5kHz and 3.5kHz 5V to 15V DC
Rated voltage:	12V DC
Current consumption:	200mA max @ 12V DC
SPL:	105dB @ 100cm (12V DC)
Tone/pulse rate:	1.2Hz
Dimensions:	84.5 x 61.5 x 55mm excluding bracket
Weight:	109g

Weig CODE TYPE PRICE 29-0428 Compact Piezo Siren 1Hz..... £8.99

ULTRASONIC TRANSDUCERS

ULTRASONIC TRANSDUCERS an ultrasonic transmitter and high sensitivity receiver designed for sending and receiving continuous or modulated waves in the 40kHz region through air. Applications include remote control, data transmission, etc, These units are not watertight.

Technical Specification

		Transm	itter	Receiver			
Sensitivity		106dB		-65dB		The second	
Resonant fr	equency	,	40kHz ±	± 1kHz		Y	
Directional	angle		Approx	20°		11	
Max. input v	voltage	20V rms	6				
Impedance		500Ω		30KΩ			
Capacitance	е		1100pF	±20%			
CODE	TYPE						PRICE
800-272	Ultraso	nic Trar	nsducer	Transmitt	er		£3.75
800-274	Ultraso	nic Trar	nsducer	Receiver			£3.75

MICROPHONE INSERTS

ELECTRET MICROPHONE INSERT a sub-miniature electret microphone insert available with solder pads or PCB pins for direct mounting to printed circuit boards.

Technical Specifica	tion
Impedance	300Ω
Freq. Response Sensitivity (@1kHz)	50Hz to 12kHz -60dB ±3dB (0dB =1V/1µ bar, 1kHz, Vcc=4.5,RL=1K)
Operating Voltage	1.5V to 10V (standard 4.5V)
Dimensions	10mm x 7mm
Signal to Noise Ratio	>40dB
Current Drain	0.4mA max.
Dimensions	23mm x 11mm.

CODE	ТҮРЕ	PRICE
800-220	Electret Microphone Insert (Solder pad)	£0.90
800-225	Electret Microphone Insert (PCB pins)	£0.95

NOISE CANCELLING MICROPHONE a noise cancelling microphone. Signal-to-noise ratio >58dB.

Technical Specification Operating voltage nom.: Operating voltage max.: Current consumption max .: Output impedance: Frequency: Sensitivity: SNR: +ve Terminal: Dimensions:

2V 10V 0.5mA <2.2kΩ 100Hz to 10kHz -40dB ±3dB >58dB Terminal 1



TYPF

29-0364 Noise Cancelling Microphone 9.7mm..... £2.15

ø9.7 x 5mm

E-mail: sales@squirestools.com - www.squirestools.com

PRICE

OMNI-DIRECTIONAL MICROPHONES a range of omnidirectional

microphones. Available as PCB mount with ø6mm or ø9.7mm or ø6mm solder pads version. Frequency range up to 16kHz and Signal-to-noise ratio >60dB.



Technical Specification				
Order code	29-0394	29-0396	29-0398	
Termination:	PCB mount	Solder pads	PCB mount	
Operating voltage nom .:	2V	2V	1.5V	
Operating voltage max.:	10V	10V	10V	
Current consumption max.:	0.5mA	0.5mA	0.5mA	
Output impedance:	<2.2kΩ	<2.2kΩ	<2.2kΩ	
Frequency:	100Hz to 16kHz	50Hz to 16kHz	50Hz to 16kHz	
Sensitivity:	-40dB ±3dB	–42dB ±3dB	–41dB ±3dB	
SNR:	>60dB	>60dB	>60dB	
+ve Terminal:	Terminal 1	Terminal 1	Terminal 1	
Dimensions:	ø6 x 2.2mm	ø6 x 2.2mm	ø9.7 x 4.5mm	
CODE TYPE				PRICE
	Mierenhane D			
29-0394 O/Directioanl	Microphone P		BIVI-703	£1.69

20 0004	o/Direction interoprione i ob onini / Dir / oo	21.00
29-0396	O/Directioanl Microphone S/Pad 6mm ABM-705.	£1.39
29-0398	O/Directioanl Microphone PCB 9.7mm ABM-707.	£1.19

INTERCOMS

2-WAY INTERCOM a two station telephone style intercom allowing 2-way conversation. It features a call button with adjustable

call tone level and simple two wire connection. It can be wall mounted (brackets supplied) or free standing. Master station powered by battery or optional AC/DC adaptor. Power supply 6Vdc (4 x AA), dimensions 215 x 96 x 68mm.



CODE	TYPE	PRICE
800-064	2-Way Intercom	. £36.99

2 STATION HANDSET INTERCOM SYSTEM Ideal for shops, restaurants and in the home, it is supplied as a complete 2 station system. One station is designated the 'master': this has a power indicator and volume control. Stations may be desktop or wall mounted. The system is simply wired using 2-core cable and runs off either batteries

or an external power supply. ann2 core 0.5mm Cable..... (for best results max. run 400 metres approx) Power requirements.....6 volt power supply (not supplied) or 4 x AA type batteries for system (not supplied) Dims..... TYPE CODE PRICE 561-020 T12 Handset Intercom System...... £39.99

DOORPHONE INTERCOM

TALK THROUGH GLASS INTERCOM designed to allow conversation through a glass partition. Typical applications are ticket booth, bank counter, petrol station and reception. Features desk mount base station with condenser gooseneck microphone, glass mount remote station. Red LED power ON indication, call tone to alert base station, rotary switched volume control. Supplied with interconnection cable and AC/DC adaptor.



CODE	ТҮРЕ	PRICE
29-0827	Talk Through Glass Intercom	£64.99

WIRELESS DOORBELLS

WIRELESS REMOTE CHIME a compact, low profile unit which can be used as a door bell or as an alert call for the sick or elderly. Easy to install with no wiring required, pleasant sounding tone. Battery operated with low power consumption, the remote unit is IP44 rated for outside use. Batteries not supplied.

Specification Batteries Chime 3Vdc (2 x AA) Remote 12Vdc (1 x 23A) Frequency 433.92MHz Range 50m (Open Air) Dimensions: Chime 120 x 45 x 28mm Remote 92 x 43 x 20.5mm Weight:Chime 60g Weight:Remote 42g



CODE	ТҮРЕ	PRICE
29-0195	Wireless Remote Chime	£7.99

WIRELESS DOOR CHIME a portable, battery operated wire free door chime that can be taken around the home or outdoors as required. Easy to install, choice of 2 melodies, free standing or wall mounted. Selectable channels to prevent external interference. Batteries required; receiver 4.5V (3 x C batteries) Transmitter 12V (23A) not supplied

Specification Frequency 433.92MHz (±150kHz) Range 100m (Open Air) Dimensions (mm): Receiver 140 x 327 x 90 Transmitter 72 x 20 x 41 Weight:Receiver 120g Weight:Transmitter 26g

CODE TYPF 29-0294 Wireless Door Chime..... £9.65

PRICE

WIRELESS DOOR CHIME WITH LIGHT INDICATOR a portable, battery operated wire free door chime with visual indication that can be taken around the home or outdoors as required. Easy to install, choice of 16 melodies, free standing or wall mounted. Digital coded radio signal to prevent external interference. Selectable channels to prevent external interference. Batteries required; receiver 4.5V (3 x AA batteries) Transmitter 12V (23A), not supplied.

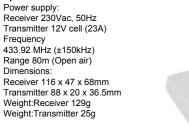
Specification Frequency 433.92MHz (±150kHz) Range 100m (Open Air) Dimensions (mm): Receiver 118 x 39 x 85 Transmitter 88 x 20 x 37 Weight: Receiver 103g Weight: Transmitter 25g



CODE TYPE PRICE Wireless Door Chime with Light Indicator.....£10.99 29-0297

PLUG THROUGH WIRELESS DOOR CHIME a plug-in mains operated wire free door chime with integral 13A socket. Easy to install, choice of 16 melodies. Digital coded signal to prevent outside interference Indoor use only.

Specification



CODE	ТҮРЕ	PRICE
29-0300	Plug Through Wireless Door Chime	£13.99

ALARM/CHIME PIR SENSOR WITH REMOTE CONTROL a PIR detector with a dual function as a chime announcer or loud alarm which is ideal for home, office, shop, garage and shed. The Alarm or chime mode is selected with slide switch. Features infra-red remote control for On/Off. Ball swivel wall mounting bracket or keyhole for hanging. Battery operated or optional adaptor (6V, 600mA) not supplied. (Batteries not supplied).

Specification

Power supply Detector 6V (4 x AA alkaline) Battery:Remote 3 x LR44 Detection range 6m Detection angle 90 Dimensions 132.5 x 71 x 61mm Weight 161g



CODE 29-0045

TYPF PRICE Alarm/Chime PIR Sensor with Remote Control.... £19.99

FREE PARKING FOR 2 HOURS OUTSIDE OF OUR SHOP

MINI VISITOR CHIME a light sensitive, motion activated entry chime suitable for office and retail locations. Sensing distance up to 4m in normal light conditions, high/low volume and Off selector switch. "Ding Dong" melody, mounting by keyhole or adhesive pad. Batteries not supplied.

Specificatio Power supply 2 x AAA (alka Dimensions 72.5 x 53.5 x Weight 42g	/ aline)	Max CHINE
CODE	TYPE	PRICE
29-0042	Mini Visitor Chime	£9.50

VISITOR DOOR CHIME an attractively styled light sensitive, motion activated entry chime to welcome visitors at shops and offices. 3 selectable melodies, high and low volume settings. Keyhole for wall mounting or can be free standing. Sensing distance up to 5m (depending on light conditions). Batteries not supplied.





CODE PRICE TYPE 29-0039 Visitor Door Chime..... £11.99

PERSONAL ALARMS

PERSONAL ALARM a very loud alarm (>100dB) to signal for help in an emergency. Ideal for the elderly, joggers etc. to protect against intruders and attackers. Easy to activate, keyring chain attachment and keyhole for hanging. Compact, lightweight design. Powered by 3 x LR44 button cells (included). Bull

Specification:	AL AL
Battery 3 x LR44	4 State C
Dims 66 x 38 x 25mm	
Weight 32g	PLAN PULAR
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CODE	ТҮРЕ	PRICE
29-0051	Personal Alarm	£5.99

PERSONAL ALARM WITH LED an attractively styled personal alarm with integral warning red LED for protection against intruders and attack. Easy to activate, loud alarm output (>100dB) with red LED for visable alert. Keyring chain attachment , compact, lightweight design.

Specification: Battery 3 x LR44 Dims 69.5 x 38.6 x 20.7mm Weight 27g



CODE TYPE 29-0048 Personal Alarm with LED..... £6.20

PRICE

E-mail: sales@squirestools.com - www.squirestools.com

VOICE & MUSIC MODULES

CIRCULAR VOICE MODULES voice modules with a choice of messages. The modules use a 29mm mylar speaker for sound quality, and are powered by two L1131 replaceable button cells (supplied). To operate, the top of the

module is simply pushed. Replacement cells are available.

CODE	ТҮРЕ	PRICE
800-336	Voice Module Snore	£2.99
800-768	Voice Module Laughter	£2.99
800-770	Voice Module I Love You	£2.99
800-342	Voice Module Lion	£2.99

CIRCULAR MUSIC MODULES music modules available with a variety of tunes. The modules are activated by simply pressing the metal top. A 27mm piezo sounder produces the melody, the module being powered by two replaceable

L736 button cells (supplied).

Replacements cells are available.



CODE	ТҮРЕ	PRICE
800-760	Music Module Love Me Tender	£1.75
800-762	Music Module Rock A By Baby	£1.75
800-330	Music Module Happy Birthday to You	£1.75
800-334	Music Module Lambada	£1.75
800-764	Music Module Match Of The Day	£1.75

TELEPHONE RING SOUND MODULE WITH LED a sound module as fitted to greetings cards, featuring an electronic telephone ring sound and a flashing miniature red LED. When mounted, the module is activated by opening the card which removes an insulating tongue from between a pair of switch contacts on the module. The module is supplied mounted on a self-adhesive pad which is peeled from its backing paper and attached to the card. Powered by two L736 button cells

(supplied). Replacement cells are available. Approx overall dims 90 x 38 x 5.5mm.



CODETYPEPRICE800-756Telephone Ring Sound Module With LED......£1.99

LIGHT ACTIVATED MUSIC MODULES

LIGHT ACTIVATED MUSIC MODULES a range of light activated music modules as found in novelty mugs etc. When light is excluded the music switches off, when the mug etc is lifted the music plays. Available with a range of tunes. The modules are fit-

ted with 29mm mylar speakers and are powered by a replaceable button cell. Dims 40 x 30 x 5mm.

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CODE	TYPE	PRICE
800-746	Light Activated Mod You're The One I Want	£2.50
800-748	Light Activated Mod Old MacDonald Had A Farm	£2.50
800-750	Light Activated Mod Football Crazy	£2.50

BENCH LAMPS

MINI ROUND DAYLIGHT FLUORESCENT MAGNIFYING LAMP a good quality magnifying lamp which is ideal for all hobby and craft work. The lamp is supplied with a 22W circular daylight fluorescent tube providing high light output with an even light distribution and virtually no heat being emitted. The lamp features a 5" diameter glass lens providing x1.75 magnification. The magnifying head is mounted on a spring balanced arm which allows universal positioning. The arms have a good reach of over 80cm. The lamp arms are metal, the lamp head is impact resistant plastic. The lamp is supplied with a strong table clamp. Ideal for extended periods of work and for colour matching if required. Spare tubes are available.



CODETYPEPRICE120-066Mini Round D/light Fluorescent Bench Magnifier. £44.99120-067Spare Daylight Fluorescent Tube for 120-066...... £7.99

L/C TWIN TUBE FLUORESCENT LAMP a high quality lamp with 2 x 15W 45cm daylight fluorescent tubes providing high light output with an even light distribution and virtually no heat being emitted. The lamp head is mounted on a spring balanced arm and may be rotated in two planes to allow universal positioning. Robust metal construction and supplied with a robust table clamp. Clamp capacity 57mm. The lamp is ideal for extended periods of work and

for when accurate colour matching is required.

	17	
CODE	ТҮРЕ	PRICE
120-011	L/C Twin Tube Fluorescent Lamp	£69.99
120-111	Fluorescent Tube 45cm 15 Watt	£8.99

L/C TRIPPLE TUBE FLUORESCENT LAMP a high quality lamp with 3 x 14W 45cm daylight fluorescent tubes providing high light output with an even light distribution and virtually no heat being emitted, with the flexibility of being used in either two tube or three tube mode The lamp head is mounted on a spring balanced arm and may be rotated in two planes to allow universal positioning. Robust metal construction and supplied with a robust table clamp.

Clamp capacity 57mm. The lamp is ideal for extended periods of work and for when accurate colour matching is required.

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CODE	ТҮРЕ	PRICE
120-013	L/C Tripple Tube Fluorescent Lamp	£79.99
120-111	Fluorescent Tube 45cm 15 Watt	£8.99

TEL. 01243 842424 - FAX. 01243 842525