

DIY Kits

Audio Kits



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Sound Effect Kits



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Miscellaneous



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Audio Kits - Overview

Audio Amplifiers

Part No.	Max. Power	Impedance [Ω]	Power Supply	Suitable Transformer	Transformer Ord.No	Load	IC	Transistor	Note	Page
NE529	1x 0,66W	8	4 ÷ 12V	1x 9V 3,2VA	12879	8 Ω and more	LM386			P3
NE021	1x 4W	4	3 ÷ 16V	1x 12V 5VA	12891	8 Ω and more	TBA820			P2
NE530	2x 4W	4	4 ÷ 11V	1x 9V 10VA	12902	4 Ω and more	KA2206			P4
NE011	1x 7W	4	4 ÷ 20V	1x 15V 16VA	12915	4 Ω and more	TBA810			P2
NS561	4x 12W	2	8 ÷ 18V	2x 12V 50VA	8264	4 Ω and more	TDA8561			P5
NE018	1x 15W	4	12 ÷ 24V	1x 15V 22VA	12934	4 Ω and more	TDA2030			P2
NE019	2x 15W	4	12 ÷ 24V	1x 15V 30VA	12925	4 Ω and more	TDA2030		bridge	P2
NE060	2x 15W	4	12 ÷ 24V	2x 12V 50VA	8264	4 Ω and more	TDA2030		bridge	P3
NE020	1x 20W	4	8 ÷ 18V	2x 12V 50VA	8264	4 Ω and more	TDA2003		only bridge	P2
NS066	2x 20/30W	4	±10 ÷ ±20V	2x 12V 50VA	8264	4 Ω and more	TDA2040			P4
NS067b	2x 30/40W	4	±10 ÷ ±20V	2x 12V 100VA	59955	4 Ω and more	TDA2050			P4
NS074	1x 40W	4	±10 ÷ ±30V	2x 24V 50VA	8265	4 Ω and more	LM3876			P4
NS563	2x 40W	2	6 ÷ 18V	2x 12V 100VA	59955	2 Ω and more	TDA8563Q		for car appl.	P5
NE078	2x 30W		±12 ÷ ±17V	2x 12V 100VA	59955	2 Ω and more	TDA2030	2+2pcs BDX53,54	bridge	P3
NS071	2x 50W	4	±10 ÷ ±25V	2x 12V 100VA	59955	4 Ω and more	TDA7250	2+2pcs BDX33,34		P4
NS562	1x 70W	4	8V ÷ 18V	2x 12V 80VA	8266	4 Ω and more	TDA1562Q		for car appl.	P5
NS072	2x 80W	4	±10 ÷ ±35V	2x 24V 160VA	64732	4 Ω and more	TDA7250	2+2pcs TIP142,147		P4
NE013	1x 70/100W	4	±10 ÷ ±40V	2x 24V 160VA	64732	4 Ω and more	TDA7294			P2
NE013NZR	1x 70/100W	4	±10 ÷ ±40V	2x 24V 160VA	64732	4 Ω and more	TDA7294		rectifier + heatsink	P2
NE022	2x 70/100W	4	±10 ÷ ±40V	2x 24V 200VA	64734	4 Ω and more	2xTDA7294		bridge	P2
NE116a	2x 50/100W		±10 ÷ ±35V	2x 24V 300VA	60313	4 Ω and more	TDA7250	2+2pcs TIP142,147	bridge	P3
NS073	2x 130W	4	±10 ÷ ±45V	2x 24V 250VA	64739	4 Ω and more	TDA7250	2+2pcs MJ11015,16		P4
NS075	2x 60/150W	4	±10 ÷ ±30V	2x 24V 300VA	60313	4 Ω and more	LM3886			P4
NS077	1x 200W	8	±10 ÷ ±45V	2x 24V 250VA	64739	8 Ω and more	TDA7294		bridge	P4

Pre-Amplifiers

NS201	stereo HI-FI with corrections (LM1036)	P4
NE025	stereo with corrections	P2
NS200	stereo with RIAA characteristic for gramophones (NE5532)	P4
NE098	stereo with RIAA characteristic for gramophones (TL062)	P3
NE099	mono for mikrophone/guitar	P3
NE092	active stereo sound controller (TL084)	P3
NE073	mono graphic equalizer with 5+1 potentiometer	P3
NE097	mono 8-channel audio mixer (TLOx1, NA741)	P3
NE125	active subwoofer filter (TL072)	P3

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Amplifier Accessories

NS005	10 LED VU meter (LM3915)	P4
NS053	stereo 2x5 LED VU meter with AN6884	P4
NE012	stereo 2x10 LED VU meter	P2
NE016	mono 10 LED VU meter	P2
NE085	delayed switch-on-speaker system	P3
NE069	power supply ±35V without transformer	P3
NE069A	power supply ±45V with transformer	P3

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Suitable heatsinks - chapter I

AUDIO Kits

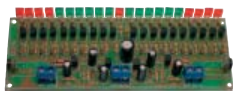


NE 011 7W Mono Audio Amplifier with UL1481 (TBA810)

This small amplifier is constructed around the UL148 IC. (TBA810) The IC is fully protected against overheating and short circuits.
Music power output: 7W / 4Ohm
Frequency response: 40Hz to 20kHz
Supply voltage: 4-20V

7W 4Ω

Part No.	Ord.No
S NE 011	45263



NE 012 Stereo VU Meter

It is suitable for all stereo devices as recorders, mixing consoles, stereo amplifiers...
21 LED - one for ON/OFF indication, 2x10 LED for signal - level indication
Supply voltage: 10-14V
Dimensions: 80x38x15mm

Part No.	Ord.No
S NE 012	9613



NE 013 100W Mono Audio Amplifier with TDA 7294

It is suitable for driving subwofers. The IC is fully protected against overheating and short circuits.

Music power output: 70-100W / 4Ohm
Supply voltage: from + and -10V to + and - 40V
Recommended pre-amplifier: NE025

70/100W 4Ω

Part No.	Ord.No
S NE 013	48823



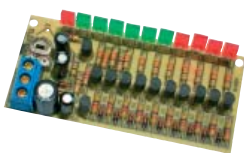
NE 013 NZR 100W Mono Audio Amplifier with TDA 7294, rectifier and heatsink

This kit is suitable for driving subwofers. The IC is fully protected against overheating and short circuits.

Music power output: 70-100W / 4Ohm
Supply voltage: from + and -10V to + and - 40V
Recommended pre-amplifier: NE025

70/100W 4Ω

Part No.	Ord.No
S NE 013 NZR	62261



NE 016 Mono VU Meter

VU meter with a scale consisting of 10 LEDs.

Part No.	Ord.No
S NE 016	9615



NE 018 15W Mono Audio Amplifier with TDA2030

This small AF amplifier is constructed with the TDA2030 IC, with a maximum supply capability of 15Wrms/4 ohm. The IC is protected against overheating and short circuits.

Suitable for tuners, CDs, MP3, radios...

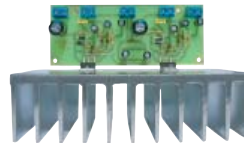
Music power output: 15W / 4Ohm

Supply voltage: max.30V

Dimensions: 55x45mm

15W 4Ω

Part No.	Ord.No
S NE 018	9617



NE 019 15W Stereo Audio Amplifier with TDA2030

This small AF amplifier is constructed with the TDA2030 IC, with a maximum supply capability of 2x15Wrms/4 ohm. The IC is protected against overheating and short circuits.

Suitable for tuners, CDs, MP3, radios...

Music power output: 2x15W / 4Ohm

Supply voltage: max.30V

2x15W 4Ω

Part No.	Ord.No
S NE 019	9618



NE 020 20W Mono Audio Amplifier with TDA2003

Simple amplifier constructed with two TDA2003 in bridge connection. The IC is fully protected against overheating and short circuits.

Music power output: 20W / 4Ohm

Supply Voltage: 8-18V

Easy to install

20W 4Ω

Part No.	Ord.No
S NE 020	9619



NE 021 4W Amplifier with UL1482/ TBA820M

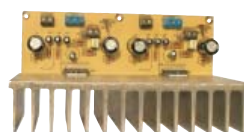
Suitable for portable equipment

Music power output: 4W / 4Ohm

Supply Voltage: 3-16V

4W 4Ω

Part No.	Ord.No
S NE 021	45264



NE 022 100W Stereo Audio Amplifier with TDA7294

Suitable for driving subwofers.

Max. music power output: 2x100W / 4Ohm

Supply Voltage: from + and -10V to + and - 40V

Impedance: 4 Ohm

Recommended pre-amplifier: NE025

2x70/100W 4Ω

Part No.	Ord.No
S NE 022	48824



NE 025 Universal Low-Noise Stereo Pre-Amplifier

Suitable for NE012 (mono), NE022 (stereo) or 2xNE022

Frequency range: 20Hz - 100kHz

Max. input voltage: 775mV

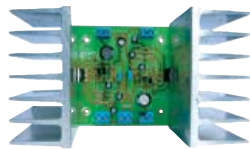
Adjustable gain: ±12dB.

Input impedance: 220Kohm

Part No.	Ord.No
S NE 025	48825

AUDIO Kits

(continued)



2x15W 4Ω

NE 060 15W Stereo Audio Amplifier with TDA2030

This small AF amplifier is constructed with the TDA2030 IC, with a maximum output power of 2x15Wrms/4 ohm. The IC is protected against overheating and short circuits. Suitable for tape records, tuners, radios... Music power output: 2x15W / 4Ohm

Part No.	Ord.No
S NE 060	45270



NE 069 Power Supply for ± 35V Amplifiers NE 069A

Power Supply for ±45V Amplifiers
Univesal power supply for AF amplifiers
NE069 for output current 5A/10A and output voltage +/- 35V
NE069A for output current 10A/50A and output voltage +/- 45V
Suitable for NE078, NE013, NE022, NE116A

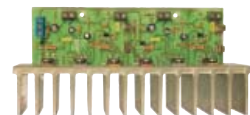
Part No.	Ord.No
S NE 069	45275
S NE 069A	45276



NE 073 Graphic Equalizer with Volume Control

Mono
5 potentiometers
1 volume regulator
Dimensions: 122x58x25mm

Part No.	Ord.No
S NE 073	9640

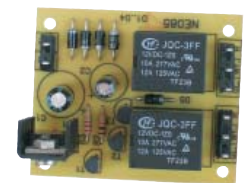


NE 078 2x50W/1x100W Audio Amplifier

This amplifier is constructed with the TDA2030 IC
Max. music power output: 2x30/50W 4Ohm or 1x60/100W 4Ohm
Supply Voltage: ±12V and ±17V
Easy to install

2x30/50W 4Ω 1x60/100W 4Ω

Part No.	Ord.No
S NE 078	9641



NE 085 Delayed Switch-On-Speaker System

Supply Voltage: 12-24V
Current Consumption: 70mA
Dimensions: 55x45x22mm

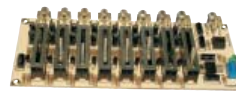
Part No.	Ord.No
S NE 085	45281



NE 092 Active Stereo Sound Controller with TL084

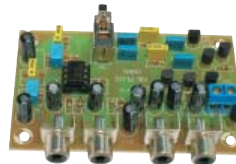
This stereo sound controller must be superposed to the stereo final amplifier. Trebles, basses and volume are adjustable separately
Dimensions: 75x70x30mm

Part No.	Ord.No
S NE 092	9644



NE 097
8-channel Audio Mixer with TL061
The Kit has 8 independent inputs and 1 output. It works with any kind of source of audio signal. The circuits are supplied from integrated regulated power supply 12V or 15V. Because of very low power consumption (30mA) it is possible to use a non-regulated plug-in power supply (adapter).

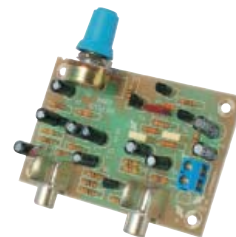
Part No.	Ord.No
S NE 097	45297



NE 098 RIAA Stereo Pre-Amplifier with TL062

RIAA stereo pre-amplifier for MD pick-ups. Low noise. Supply voltage: 12V / regulated
Active filter: 100Hz

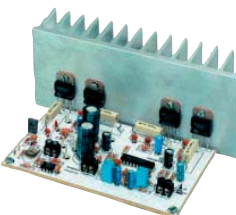
Part No.	Ord.No
S NE 098	45298



NE 099 Guitar and Microphone Pre-Amplifier

An electric guitar or microphone cannot be connected to just any amplifier or audio installation. This pre-amplifier has been designed exactly for this purpose
Input sensitivity: 4mV
Output: 775mV
Impedance: 5kOhm standard/max.50 kOhm
Power supply: 12V
Dimensions: 80x50mm

Part No.	Ord.No
S NE 099	9645



NE 116A 2x100W Audio Amplifier with TDA 7250

This small AF amplifier is constructed with the TDA 7250 IC, with a maximum output power of 2x100Wrms/4 Ohm. The IC is protected against overheating and short circuits.

2x50/100W 4Ω

Part No.	Ord.No
S NE 116A	9648



NE 125
Active Subwoofer Filter
Universal active subwoofer filter
Adjustable frequency: 80-250Hz
Dimensions: 80x50mm

Part No.	Ord.No
S NE 125	45314



NE 529 Mini Audio Amplifier with LM386

Mini audio amplifier suitable for portable equipments, toys, loudspeakers or headsets
Output power: 0,66W/8 Ohm
Power supply: 4-12V
Low current consumption
Dimensions: 38x38mm

Part No.	Ord.No
S NE 529	45339



NE 530
2x4W Mini Audio Amplifier (KA2206, TEA2025B)
 Mini audio amplifier suitable for portable equipments as well as at reparation of old car radios and tape players
 Power supply: 4-12V

2x4W 4Ω

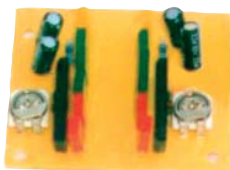
Part No.	Ord.No
S NE 530	45340

NS 005
LED VU Meter with LM3915-mono
 This LED VU Meter is capable of monitoring and displaying power levels present at the speaker outputs of an audio power amplifier. The level is displayed in ten discrete steps using 10 LEDs for each channel. This projection is designed to give an approximate visual indication of the audio power output of each channel.
 Supply voltage: +12V



Part No.	Ord.No
S NS 005	11626

NS 053
LED VU Meter-stereo with AN6884
 This LED VU Meter is capable of monitoring and displaying power levels present at the speaker outputs of a stereo audio power amplifier. The level is displayed in ten discrete steps using 2x5 LEDs for each channel. (-10dB...+6dB)
 2x1 LED On/Off indication
 Supply voltage: 3,5-18V



Part No.	Ord.No
S NS 053	11645

NS 066
2x30W Audio Amplifier (TDA 2040)
NS 067b
2x40W Audio Amplifier (TDA2050)
 Simple amplifier using TDA2040 or TDA2030 IC
 Power output: 2x30W/4Ohm or 2x40W/4Ohm
 Supply Voltage: ±20V
 Gain: 30dB
 Quiescent Current: 30-100mA

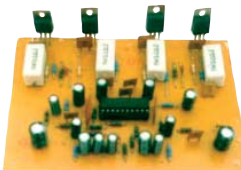


2x20/30W 4Ω

2x30/40W 4Ω

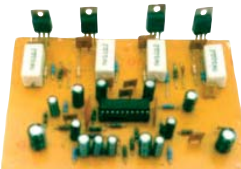
Part No.	Ord.No
S NS 066 (TDA2040)	11649
S NS 067b (TDA2050)	11650

NS 071
2x50W Audio Amplifier with TDA 7250
 Mute and Stand-By mode
 Power output: 2x50W/4Ohm
 Supply Voltage: ±10V... ±25V
 Quiescent Current: 20mA
 Constant or adjustable gain
 Max. distortion: 0,06%



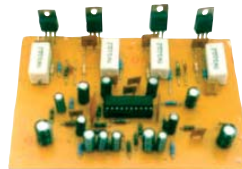
2x50W 4Ω

NS 072
2x80W Audio Amplifier with TDA 7250
 Mute and Stand-By mode
 Power output: 2x80W/4Ohm
 Supply Voltage: ±10V... ±35V
 Quiescent Current: 20mA
 Constant or adjustable gain
 Max. distortion: 0,06%



2x80W 4Ω

Part No.	Ord.No
S NS 071 2x50W	11653
S NS 072 2x80W	11654



NS 073
2x130W Audio Amplifier with TDA 7250
 Mute and Stand-By mode
 Power output: 2x130W/4Ohm
 Supply Voltage: ±10V... ±45V
 Quiescent Current: 20mA
 Constant or adjustable gain
 Max. distortion: 0,06%

2x130W 4Ω

Part No.	Ord.No.
S NS 073	11655

NS 074
40W High-End Amplifier with LM3876
 Max. distortion: 0,006%
 Signal-to-noise ratio: 110dB
 SPiKE-Protection - overload and short-circuit protection, protection against incorrect power supply polarity and thermal protection
 Quiescent Current: 60-100mA
 Power Supply: ±30V



1x40W 4Ω

Part No.	Ord.No
S NS 074	11656

NS 075
2x60/2x150W High-End Amplifier with LM3886
 Distortion at 60W: 0,006%
 Signal-to-noise ratio: 110dB
 SPiKE-Protection - overload and short-circuit protection, protection against incorrect power supply polarity and thermal protection
 Quiescent Current: 60-100mA
 Power supply: ±30V



2x60/150W 4Ω

Part No.	Ord.No
S NS 075	11657

NS 077
2000W DMOS Audio Amplifier with TDA7294
 Amplifier constructed with two TDA7294 in bridge connection
 Short-circuit and thermal protection
 Mute and Stand-By mode
 Impedance: 8-16 Ohm
 Power supply: ±10VDC ... ± 45VDC max.



1x200W 8Ω

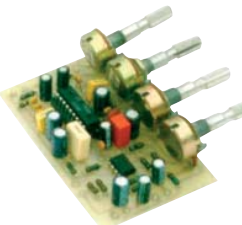
Part No.	Ord.No
S NS 077	11658

NS 200
RIAA Pre-Amplifier for Gramophone with NE5532
 Phono preamplifier with the RIAA characteristic. Output is suitable for any kind of audio power amplifiers. As a power supply is used simple 12 or 36V.



Part No.	Ord.No
S NS 200	11666

NS 201
Hi-Fi Pre-Amplifier with LM1036
 Adjustable gain: +/-15dB
 Input gain: 20dB
 Power supply: +9...+12V
 Consumption: 40-50mA



Part No.	Ord.No
S NS 201	11667

AUDIO Kits

(continued)



4x12W 2Ω

NS 561 4x12W Quadro Amplifier (TDA 8561)

Overload and short-circuit protection, protection against incorrect power supply polarity and thermal protection
Stand-By mode
4 AF inputs and outputs
Power supply: +8...+18V
Max. distortion: 0,3%
Gain: 20dB



1x70W 4Ω

NS 562 70W Audio Amplifier (TDA 1562Q)

Overload and short-circuit protection, thermal protection
Stand-By mode
Stand-By Current: 20uA



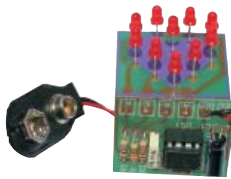
2x40W 2Ω

NS 563 2x40W Amplifier (TDA 8563Q)

Clean tonality and powerful sound
Output Impedance 2-4 Ohm
Max. Output power 2x40W/2R and 2x25W/4R
Stand-By Current < 100uA
Operating voltage: 6-18V
Gain > 26dB
Overload, overheating and short-circuit protection

Part No.	Ord.No
S NS 561	11678
S NS 562	11677
S NS 563	11679

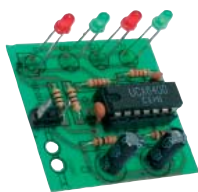
Light Effect Kits



NE 002 Flashing Heart

With NE555
10 LEDs
Adjustable flashing speed with potentiometer.
Power supply: 9V battery (not incl.)
Dimensions: 30x25mm

Part No.	Ord.No
S NE 002	9606



NE 007 Light Effect Module

With 7400 IC
Suited for different applications, f.e. as eye catcher in stores, at exhibitions, in toys, etc...
Power supply: +5V or 4,5V battery

Part No.	Ord.No
S NE 007	9609



NE 010 Flashing Star

Fading animation
Adjustable fading speed with potentiometer
Power supply: 15V
Dimensions: 125x75x30mm

Part No.	Ord.No
S NE 010	9612



NE 017 6-Channel Running Light

This impressive bulb running light can be used for many applications, such as: modelling, advertising and decoration.
Power supply: 24 VAC
Consumption: 3A per channel
Dimensions: 90x47x25mm

Part No.	Ord.No
S NE 017	9616



NE 053 Flashing LED Star

Based on NE555 IC
31 LEDs
Adjustable flashing speed with potentiometer
Dimensions: 100x85x20mm

Part No.	Ord.No
S NE 053	9635



NE 108 Pulsating Heart

Show your sweetheart in an original way that your heart still beats for him or her. 40 LEDs form 3 blinking hearts.
Adjustable light-up speed
Power supply: 12V
Consumption: 50mA
Dimensions: 80x80mm

Part No.	Ord.No
S NE 108	45304



NE 111 Color Organ

3-channel color organ, each channel can drive up to 360W bulb. It's input is equipped with an automatic gain amplifier.

Part No.	Ord.No
S NE 111	9646



NE 204 Christmas Bulb Driver with NE555

Power supply: 8-18V
Consumption: 4mA at 9V
Dimensions: 25x35x10mm

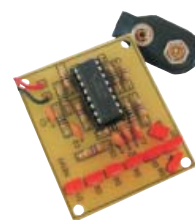
Part No.	Ord.No
S NE 204	45320



NE 209 Animated Bell

Animated Bell with 68 LEDs. Based on popular NE555 IC
Power supply: 12V (possible for use in cars, lorries, trucks)

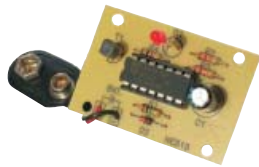
Part No.	Ord.No
S NE 209	46744



NE 503 Blinking Arrow (4049)

This blinking arrow can be used for many applications, such as advertising, decoration, in games or as indicator of direction in dark places
8 LEDs
Power supply: 6-12V
Dimensions: 55x42x15mm

Part No.	Ord.No
S NE 503	9649



NE 515
Economic Flashing LED Light (4011)
 Very low current consumption
 Very powerful flash effect (short, bright pulses)
 For emergencies, warning signs, as eye-catcher, 'alarm-active' - simulation, etc ...
 Power supply: 3,3-10V
 Dimensions: 40x30x15mm

Part No.	Ord.No
S NE 515	9656



NE 528
Mini-Color Organ (LM324)
 The circuit is based on an Integrated Circuit LM324, which provides three sharp active filters for each channel. Three independent controls vary the brightness for low, midrange and high frequencies. Three high-intensity LEDs light up and react simultaneously to every sound. For different funny and practical applications e.g. sound indicator, simple sound-to-light unit for music, tuners or CD-player
 Power supply: 15-24 V
 Dimensions: 95x80mm

Part No.	Ord.No
S NE 528	45338



NE 533
Two-Colour Blinking Flower (555)
 Based on NE555
 7 two-colour LEDs
 Adjustable speed of blinking
 Power supply: 9-12V
 Dimensions: 39x39mm

Part No.	Ord.No
S NE 533	45343



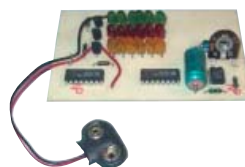
NE 534
Two-colour LED Bar (4017)
 This 5-channel LED chaser can be used anywhere requiring LED light effects. The circuit is based on Integrated Circuit which drives all 5 two-colour LEDs.
 LEDs light up and fade
 Supply voltage: 9-12V
 Dimensions: 43x34mm

Part No.	Ord.No
S NE 534	45345



NS 018
Light Snake (4001,4017,4011)
 This kit can be operated in a wide range of supply voltage 3-30V and can drive up to 48 LEDs.

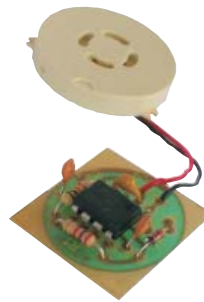
Part No.	Ord.No
S NS 018	11633



NS 059
Light Snake with 18 LEDs (NE555)
 Based on NE555 which drives 3x6LEDs
 LEDs light up and fade
 Possibility of connection 10x10LEDs
 Supply voltage: 9V

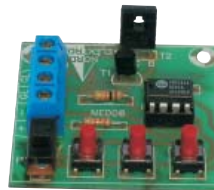
Part No.	Ord.No
S NS 059	11648

Sound Effect Kits



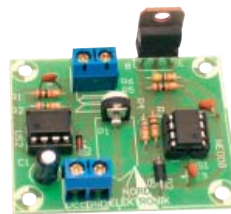
NE 004
Sound Effect Generator (Acoustic Signalization) (NE555)
 Great for model railroads, radio controlled toys, stage or as a gadget.
 Based on NE555
 Low power consumption
 Dimensions: 25x25x10

Part No.	Ord.No
S NE 004	9607



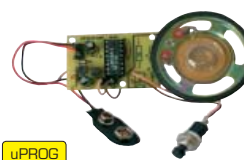
NE 006
4-Sound Effect Generator (UM3561)
 Ambulance, Fire, Police, and Machine Gun Sounds Kit
 Based on UM 3561 (DIL8)
 Supply voltage: 1,5-3V
 Dimensions: 51x20x46mm
 Suitable speaker: ARO 3618

Part No.	Ord.No
S NE 006	9608



NE 008
9V Electronic Siren (555)
 A simple siren circuit and a surprisingly loud output. Good as a sound module to attach to an alarm system, etc. 9 volt DC operation.
 Output Power: 5W/40hm
 Frequency: 300-1000Hz
 Dimensions: 46x50x30mm

Part No.	Ord.No
S NE 008	9610



NE 009G
Music Box - 3 Melodies (M948)
 Based on M948
 Supply voltage: 4-9V
 Dimensions: 30x45x20mm

Part No.	Ord.No
S NE 009G	9611



NE 024
3-Tone Siren
 Ambulance, Fire and Police Sounds
 Supply voltage: 9V
 Dimensions: 45x55x25mm

Part No.	Ord.No
S NE 024	9621



NS 006
Bird Song Sound Generator
 This unit create a realistic "Bird Song" sound. It is a useful unit having many applications such as door bells, alarms, telephone ring, clocks, timers, shop entrance bell, etc.
 Min. Impedance: 50Ohm
 Supply voltage: +5...+12V/12mA

Part No.	Ord.No
S NS 006	11627

Sound Effect Kits

(continued)



NS 017
SMD Police Siren
 Based on 555 IC
 A realistic "American style" police siren imitating device.
 Supply voltage: 9V

SMD

Part No.	Ord.No
S NS 017	11670

Car Kits



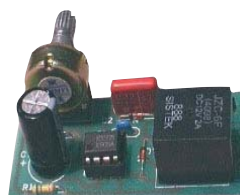
NE 104
Digital Tachometer
 For cars or motorcycles with a petrol engine. May be used as a general purpose rounds counter.
 Range: 100 - 7000 rounds/minute
 3 digit LED display
 Power supply: +11... +16V
 Dimensions: 83x55x30mm

Part No.	Ord.No
S NE 104	45301



NE 120
Electronic burglar alarm for Cars
 This electronic circuit can be used in cars as a simple engine blocking device. The car can be started only by using a unique electronic key.

Part No.	Ord.No
S NE 120	45310



NE 521
Windshield Wiper Interval Timer
 Different time intervals can be selected for the windshield wipers of your car. It can also be used for driving a slide projector.
 power supply: 12 V
 PCB dimensions : 30x60x25mm

Part No.	Ord.No
S NE 521	45334



NE 523
Car Alarm Simulator Kit
 Want to deter your local thief without spending hundreds on a car security alarm? LED with 'realistic-appearing' flash sequence simulates active car alarm system.
 Activates automatically when the engine is turned off.
 Easy to install
 Power supply: + 12V
 Dimensions: 35x20x15mm

Part No.	Ord.No
S NE 523	9659



NE 524N, NE524N SMD
Car-Battery Indicator
 The alarm detects sudden voltage drops of the battery
 5xLED
 Dimensions: 57x28x10mm



SMD

Part No.	Ord.No
S NE 524N	61429
O NE 524N SMD	61430



NE 525
Acoustic Signalization of Reverse Driving (555)
 This electronic circuit generates an acoustic warning signal for pedestrians when gearbox is switched to reverse.
 Power supply: 12V or 24V
 Dimensions: 70x30x25

Part No.	Ord.No
S NE 525	9661



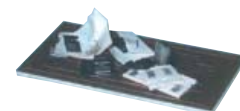
NE 526
Interior Light Driver
 The interior light driver delays bulbs switch OFF, for comfortable leaving of the car
 Power supply: 12V
 Dimensions: 58x26mm

Part No.	Ord.No
S NE 526	45336



NS 027
Converter 12V/22V/2A
 Converter from 12VDC to 22VDC at maximum rated output power 2A
 Efficiency: 90%
 Transformerless

Part No.	Ord.No
S NS 027	11637



NS 100
SMD Car-Battery Indicator
 The alarm detects sudden voltage drops of the battery
 Three LEDs indication (over 13,6V; from 13,6V to 10,6V; under 10,6V)

Part No.	Ord.No
S NS 100	11674



HWK1
Headlight Warning Kit
 The alarm detects sudden voltage drops of the battery when the car lights are switched on. Continuously repeated alarm tone indicate that the lights are activated, so that you will not forget to switch them off.
 Only 3 wires are required for hook-up
 Supply voltage: 12V DC

SMD

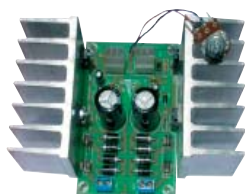
Part No.	Ord.No
S HWK1	41362

Measurement and Test Kits



NE005
Power Supply 2-12V/0,5A
 Based on UA723 IC
 Suitable for motors, bulbs...not suitable for audio equipment.
 Continuously adjustable voltage
 Input Voltage: 15-17V
 Dimensions: 30x55x85mm

Part No.	Ord.No.
S NE 005	43138



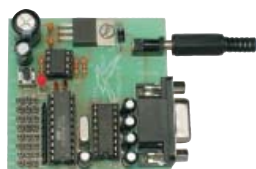
NE 023
**Power Supply 5/12V 1A;
 1,2-24V/3A**
 Universal power supply for regulated voltage 5V and 12V/1A
 Adjustable power supply with voltage regulation 1,2-24V/3A
 Input voltage: 12V/1A and 24V/3A
 Output voltage: +/-5V, +/-12V or 5V,12V
 Dimensions: 125x90x75mm

Part No.	Ord.No.
S NE 023	9620



NE 028
Regulated Adjustable Power Supply 1,5-17V/3A
 Based on LM317
 Adjustable power supply for all common kits based on a stabilized DC voltage between 1,3 and 17V at max. power 3A. Of course this power supply unit can also be used for other purposes.
 Output voltage: adjustable from 1 to 17V, stabilized
 Output current: max. 3A
 Transformer not supplied
 Dimensions: 132 x 67x 25mm

Part No.	Ord.No.
S NE 028	45265

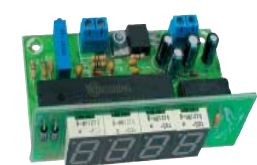


NE 041
Servo-Motor Driver RS232
 Kit uses pre-programmed micro-controller to drive up to 8 model/hobby servo motors simultaneously

Part No.	Ord.No.
S NE 041	54637



NE 046A
Digital Ammeter
 This high-brightness digital panel meter is based on 12-bit converter ICL 7107
 Supply voltage: 8-15V
 4-Digit display
 Range: 200uA to 20A
 Dimensions: 84x53x36mm



NE 046V
Digital Voltmeter
 This high-brightness digital panel meter is based on 12-bit converter ICL 7107
 Supply voltage: 7-15V (regulated 5V± 5%)
 4-Digit display
 Range: 200mV to 20V
 Dimensions: 91x65x35

Part No.	Ord.No.
S NE 046A	58622
S NE 046V	45269



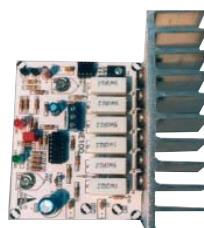
NE 049
ISP Programmer
 For AT89Sxx, AT AVR, EEPROM with I2C and some PIC processor programming

Part No.	Ord.No.
S NE 049	56478



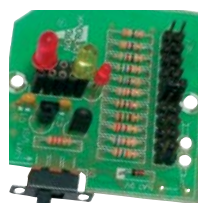
NE 054
Adjustable Power Supply 1,2-24V
 Based on LM317
 Adjustable output voltage from 1,2V to 37V
 Dimensions: 92x42mm

Part No.	Ord.No.
S NE 054	9636



NE 100
Professional Power Supply 13,8V/10A
 Regulated power supply for 13,8V and 10A
 With short-circuit and thermal protection
 Suitable for radio transceivers and more demanding applications.

Part No.	Ord.No.
S NE 100	45299



NE 122
LED Tester
 For standard or low current LEDs. For testing function, brightness and polarity. Ideal for goods received, goods testing, the laboratory, in production and hobby use.
 Voltage supply: 9V
 Dimensions: 51x49mm

Part No.	Ord.No.
S NE 122	45312



NE 123
Battery Tester (with LM3914)
 Suitable for 1,5V AAA (LR3), AA (LR6), C (LR14), D (LR20), and 9V block batteries
 Battery status indicated on 10 LED indicator
 Not suitable for rechargeable batteries
 Voltage supply: 12V

Part No.	Ord.No.
S NE 123	45313

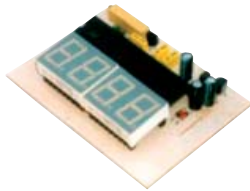


NE 504
Adjustable Mini-Drill Supply
 Suitable for all Types of minidrills which are supplied with DC voltage up to +17V and with maximum current consumption 5A
 Easy mounting

Part No.	Ord.No.
S NE 504	9650

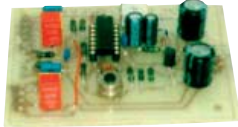
Measurement and Test Kits

(continued)



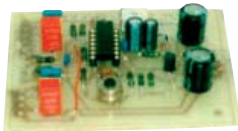
NS 012
Digital LED Voltmeter Module 0-199mV
 3,5 digit LED display
 Character height: 14mm
 Based on 7107 IC
 Voltage range: 0-199,9mV
 Voltage supply: +5V

Part No.	Ord.No
S NS 012	11629



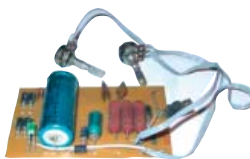
NS 013
C/U Meter 1pF-10uF
 Digital capacitance meter, output frequency determines measured capacitance.
 Capacitance range: 1pF-10uF

Part No.	Ord.No
S NS 013	11630



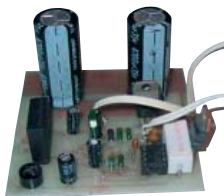
NS 015
L/U Meter 0uH-500uH
 This electronic kit acts like simple L to U converter. The output voltage can be measured by a standard voltmeter.
 Based on 74HC132 IC
 Inductance range: 0-500uH
 Voltage supply: 5V

Part No.	Ord.No
S NS 015	11632



NS 045
Power Supply 2-36V/2A with possible limitation of output current
 Based on L200 IC
 Max. input volatage: 40V

Part No.	Ord.No
S NS 045	11640



NS 089
Power Supply 0-30V with possible limitation of output current and transformer
 Based on LM317 IC
 Incl. 130VA toroidal transformer

Part No.	Ord.No
S NS 089	11663



NE 001
Temperature Controlled Digital Thermometer -50°C ...+150°C
 This thermometer with its red LED indicator can be placed anywhere you wish to measure temperatures from -50 to +150 °C.
 Temperature stabilization from 15°C to 30°C
 4 Digit LED display / 1% accuracy
 Thermostat adjustable with potentiometer

Part No.	Ord.No
S NE 001	45262



NE 031
12 LED Thermometer
 Temperature counting by 1°C in range from 17°C to 28°C
 12 LEDs
 Dimensions: 90x42x20mm

Part No.	Ord.No
S NE 031	9625



NE 035
Digital Thermometer -20°C...+99°C
 Electronic thermometer
 Temperature range: from -20 to +99 °C.
 Temperature regulation from 15°C to 30°C
 7 Digit LED display
 Supply Voltage: 12V
 Dimensions: 80x40x90mm

Part No.	Ord.No
S NE 035	9628



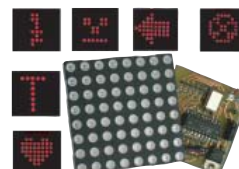
NE 044
Thermometer -50°C ...+125°C
 Two - output thermometer for displaying f.e indoor and outdoor temperature
 Measuring range: from - 50 to +125°C/ 0,5% accuracy
 With temperature sensor DS18B20
 Two LED displays with 14mm characters
 Power supply: 9V battery

Part No.	Ord.No
S NE 044	54638



NE 045
Digital Thermometer -50°C ...+150°C
 Based on ICL7107 IC
 3,5 Digit LED display
 Temperature range: from -50 to +150°C
 Power supply: 7,5-10V
 Current consumption: 250mA
 Operating temperature: 0-70°C
 Dimensions: 91x65x35mm

Part No.	Ord.No
S NE 045	45268



NE 047
Digital Thermometer with DS18B20 and Dot Matrix
 8x8 LED Matrix with displaying temperature or other patterns (heart, arrow...)
 Power supply: 9-12V
 Dimensions: 60x60x17mm

Part No.	Ord.No
S NE 047	56477



NE 052
Thermostat (MA741)
 For keeping constant temperature e.g. in aquariums
 Indication with two LEDs
 Dimensions: 25x40x80mm

Part No.	Ord.No
S NE 052	9634



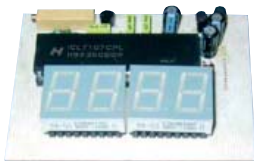
NE 088
2-channel LCD Thermometer
 -20°C...120°C
 For displaying e.g. indoor and outdoor temperature
 Measuring range: from -20 to +120°C
 Power supply: 9V
 Dimensions: 77x85x17mm

Part No.	Ord.No
O NE 088	45295



NE 107
Universal Start/Stop Timer
 Start/Stop push button switches.
 LED indication
 Time adjustable from 10 seconds to 500 seconds
 With electromagnetic relay

Part No.	Ord.No
S NE 107	45303



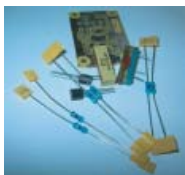
NS 010
Digital LED Thermometer
 Measuring range: from -99°C to +150°C
 With ICL7107
 Power supply: 5-15V

Part No.	Ord.No
S NS 010	11628



NS 085
Timer 1minute- 20hours
 With NE555 timer
 Basic time range: 100min. - 20 hours
 Possible range: 1min. - 20 hours
 Power supply: 12V

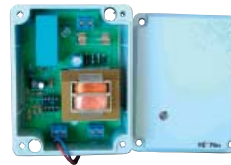
Part No.	Ord.No
S NS 085	11660



TEMP1
Thermometer
 Max. measuring range: up to 150°C
 Resolution: 0,1°C
 Suitable for all digital multimeters with input resistance 10MΩ

Part No.	Ord.No
S TEMP1	41363

Kits for Home Application



NE 029
Dimmer (MA741)
 By separately adjusting the threshold levels for light and dark, numerous applications are made possible. For automatic switching of alarm systems in the night, for controlling window shutters and awnings, general use as a light dependent switch, when differences in brightness should be recognised and used for control purposes
 Output relay 24V/3A
 Dimensions: 20x45x55mm

Part No.	Ord.No
S NE 029	9624



NE 034N
Mini Central Alarm Kit(4538, 4093)
 This affordable kit offers you a comprehensive security system.
 The loops can be used independent of each other in a self-learning way as break contact, closed-circuit contact or with monitored loop resistance. A lapsed alarm continues to be displayed via an LED.
 Current consumption: 20mA/60mA
 Power supply: 12-15VDC
 Dimensions: 90x60x25mm

Part No.	Ord.No
S NE 034N	9627



NE 037
Clap ON/OFF Switch
 Control your lamps simply by clapping your hands
 Good immunity against surrounding noises
 Microprocessor-controlled
 Output relay with LED indicator
 Current Consumption: 9,5mA/50mA
 Dimensions: 80x50x15mm

Part No.	Ord.No.
S NE 037	9630

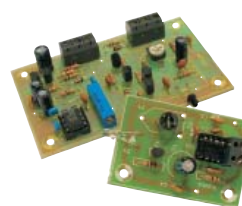


NE 056
1-channel IR Receiver
 LED indication
 Range: 10m
 Current consumption cca 50mA
 Dimensions: 81x52x20mm



NE 056A
IR Transmitter
 Power supply: 12V battery (incl.)
 Dimensions: 23x53x10mm

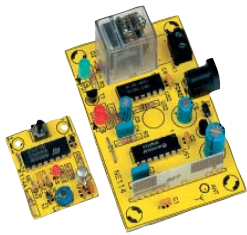
Part No.	Ord.No
S NE 056	9637
S NE 056A	9638



NE 086
IR Light Barrier
 Applications : announce visitors, warn against burglars, set boundaries, scientific projects,...
 Specifications
 Range: 3,5m
 Dimensions:
 transmitter: 35x45mm
 receiver: 50x80mm

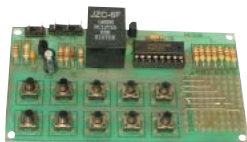
Part No.	Ord.No
S NE 086	9643

Kits for Home Application (continued)



NE 114
1-Channel Remote Control
 Receiver and transmitter
 Suitable for all kinds of applications such as light control, cars, garages....
 Receiver
 Ultra compact
 Indication through LED
 Dimensions: 30x35mm
 Transmitter:
 310MHz operation
 LED indication
 Dimensions: 82x52mm
 Input power: 12Vac / 500mA

Part No.	Ord.No
S NE 114	45305



NE 508
Code Lock (4022)
 This code lock may be used to switch an alarm on and off, or to open a door lock. The code is easy to define.
 7 digits
 Relay output
 Power supply: 9 - 14V DC
 Dimensions: 90x50x15mm

Part No.	Ord.No
S NE 508	9652



NE 509
NiCd Battery Charger
 Suitable for charging 1,2,3 or 4pcs same kind 1,25V NiCd Batteries
 Charging current 90/250mA
 LED indication
 Power supply: 12V/1A (AC) or 13-15V/1A (DC)
 Dimensions: 70x57x20mm

Part No.	Ord.No
S NE 509	9653



NE 511
Optical/Acoustical Switch (MA741, NE567)
 Relay output
 For different funny and practical applications e.g. sound indicator, simple sound-to-light unit for music. The unit can also be used to indicate when the doorbell or the telephone is ringing, which is particularly interesting for the hearing-impaired.
 Dimensions: 70x40x20mm

Part No.	Ord.No
S NE 511	45328



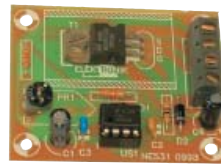
NE 512
Water Alarm (4011)
 Gives alarm sound when water is detected.
 Optical or acoustical signalization is possible
 Water sensor can be placed at a distance by cutting the board and using wires to connect the sensor.
 Power supply: +12VDC
 Dimensions: 60x30x20mm

Part No.	Ord.No
S NE 512	9655



NE 514
Liquid Level Controller (4093)
 You forget to turn off the tap, the washing machine leaks, the water level in your aquarium drops, the water tank is empty or suddenly overflows, there's water in your cellar, etc. Prevention is still better than cure and that's where this kit comes in. This multifunctional device is easy to use in a variety of applications : 1) LED control of set fluid level : LOW, MIDDLE, HIGH ; 2) Controller : the relay automatically switches a pump and/or valve to keep the fluid level between the LOW and HIGH marks ; 3) Alarm : if the sensor detects a level which is too high or too low (selectable), the relay will operate an alarm device.
 Dimensions: 50x45x15mm

Part No.	Ord.No
S NE 514	45330



NE 531
Stroboscope (555)
 Based on NE555
 Flashing light effects
 Power supply: 12V
 Bulb 12V/20W

Part No.	Ord.No
S NE 531	45341



SUPERGATE "A"

GSM Supergate "A"

Main features:
 Sending up to 8 SMS/calling up to 16 numbers on the state change of the 4 contact inputs
 Programmable through SMS
 Control of relay with phone call
 Remote interception of the locality from authorised number
Technical data:
 Working frequency: GSM 900/1800/1900 MHz
 Supply voltage: 12-14 VDC
 Current consumption:
 Nominal: 40mA
 Maximum: 2000mA (during registration to network and calls)
 Operating temperature: -20°C - +70°C
 Dimensions: 100 x 54 x 20mm
 Weight: 60g



SUPERGATE "B"

GSM Supergate "B"

Main features:
 Sending up to 8 SMS/calling up to 16 numbers on the state change of the 4 contact inputs
 Programmable through USB, SMS
 Control of 2 relays with SMS
 LCD display, aluminium enclosure
Technical data:
 Working frequency: GSM 900/1800/1900 MHz
 Supply voltage: 12-14 VDC
 Current consumption:
 Nominal: 60mA
 Maximum: 2000mA (during registration to network and calls)
 Operating temperature: -20°C - +70°C
 Dimensions: 100 x 54 x 20mm
 Weight: 120g



SUPERGATE "C"

GSM Supergate "C"

Main features:
 Sending up to 8 SMS/calling up to 16 numbers on the state change of the 4 contact inputs
 Programmable through SMS
 Control of inputs (armed/disarmed) with phone call from up to 4 authorised numbers
 Output relay can control directly alarm siren
 Aluminium enclosure
Technical data:
 Working frequency: GSM 900/1800/1900 MHz
 Supply voltage: 12-14 VDC
 Current consumption:
 Nominal: 40mA
 Maximum: 2000mA (during registration to network and calls)
 Operating temperature: -20°C - +70°C
 Dimensions: 100 x 54 x 20mm
 Weight: 110g

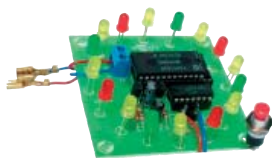
Part No.	Ord.No
S SUPERGATE "A"	64509
S SUPERGATE "B"	64506
S SUPERGATE "C"	64507

Miscellaneous Kits



NE 026
Electronic Dice (7493, 7406)
 Electronic dice with LED indication. Slowly rolls to a stop when the push button is released.
 Dimensions: 55x45x20mm

Part No.	Ord.No
S NE 026	9622



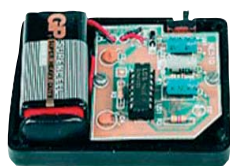
NE027
Electronic Roulette (7493, 74154)
 16 LEDs.
 Push-button operation.
 Microprocessor technology.
 Low power consumption
 Dimensions: 75x75x20mm

Part No.	Ord.No
S NE 027	9623



NE081N
Mini FM Transmitter
 This FM transmitter runs on four "AA" size batteries and has good frequency stability. The transmitting frequency is adjustable. A sensitive microphone and an LED indicator are also incorporated right on the board.
 Supply voltage: 12V DC ("AA" size battery)
 Frequency adjustable: 88 to 108MHz
 Power consumption: 10mA
 Dimensions: 60x10mm

Part No.	Ord.No
S NE 081N	61437



NE510
Ultrasonic Insect Repellent (4093)
 Working at 20kHz frequency
 Current consumption: 4mA
 Power supply: 9V
 Dimensions: 55x50x25mm

Part No.	Ord.No
S NE 510	9654



NE517
Electronic Fuse
 2 LED Indication
 Working voltage up to 24V
 Max. current: 0,3A
 Dimensions: 40x30x15mm

Part No.	Ord.No
S NE 517	9657



NE518
Thermal Fuse (MA741)
 Adjustable temperature range: 80-150°C
 Power supply: 12-24VDC
 Dimensions: 45x55x20mm

Part No.	Ord.No
S NE 518	9658



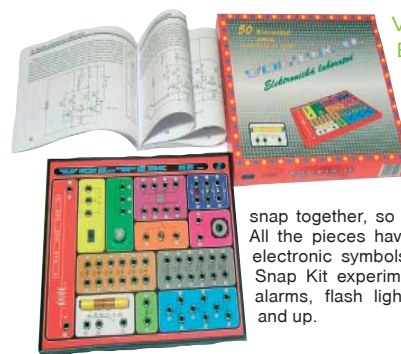
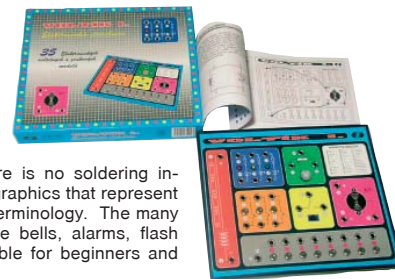
NS101
Mini FM Transmitter with auto-tuning (TDA7088T)
 Based on TDA7088T SMD
 This transmitter is an exciting product that will broadcast a quality signal in the 0,5 - 110MHz FM band.
 Power supply: 3V (max.5V)
 RESET button
 RUN function

SMD

Part No.	Ord.No
S NS 101	11675

VOLTIK I Experimental/Educational Kit

This series of Snap Circuit educational labs is perfect for learning about electronics. More than 35 different electronic experiments. All parts snap together, so there is no soldering involved. All the pieces have graphics that represent real electronic symbols and terminology. The many Snap Kit experiments include bells, alarms, flash lights and much more. Suitable for beginners and ages 7 and up.



VOLTIK II Experimental/Educational Kit

Experimental/Educational Kit
 This series of Snap Circuit educational labs is perfect for learning about electronics. More than 50 different electronic experiments. All parts snap together, so there is no soldering involved. All the pieces have graphics that represent real electronic symbols and terminology. The many Snap Kit experiments include radio, telephone, alarms, flash lights and much more. Ages 10 and up.



VOLTIK III Experiment/Educational Kit

This series of Snap Circuit educational labs is perfect for learning about electronics. More than 50 different electronic experiments. All parts snap together, so there is no soldering involved. All the pieces have graphics that represent real electronic symbols and terminology. With Logic IC, SRAM and readers
 The many Snap Kit experiments include buzzers, alarms, flash lights, roulettes, LED messages and much more. Ages 12 and up.

rolling

Part No.	Ord.No
S VOLTIIK I.	44535
S VOLTIIK II.	44536
S VOLTIIK III.	44537



EDU 1 Electronic Kit Based on Magnetic Forces

EDU 1 kit enables connecting electronic components based on magnetic forces Every single component is mounted on PCB in ABS plastic constructional base stands with magnets. Electronic components are then connected with galvanic coated steel spheres (27pcs) and contacting copper terminals in two lengths (15pcs of short, 5pcs of long ones).

EDU1 kit is equipped with basic components as: resistor, capacitor, diode, LED diode, transistor, photoresistor, switch and buzzer (19 components altogether) + two additional, empty segments enable the more advanced users to use any double-terminal electronic element. There is also power supply with a switch (short circuit resistant) made from four AA 1,5V batteries + supply wires.

In this way the number of possible electronic circuits is almost unlimited.



Part No.	Ord.No
S EDU 1	73889

Miscellaneous Kits (continued)



MERKUR 2.1
 Experimental Electronic Kit – Electric Motors
 Learn about motors and simple machines
 17 parts - includes electromotor, battery-holder and set of gear-wheels



MERKUR 2.2
 Experimental Electronic Kit – Electric Motors
 Learn about motors and simple machines
 106 parts - includes electromotor, battery-holder and set of gear-wheels



MERKUR E1
 Experimental Electronic Kit – Electricity and Magnetism
 88 various experiment
 Ages 10 and up



MERKUR E2
 Experimental Electronic Kit – Electronic
 60 various electronic experiments
 Ages 10 and up

Part No.	Ord.No.
S MERKUR 2.1	63786
S MERKUR 2.2	63787
S MERKUR E1	63781
S MERKUR E2	63782



MERKUR Steam Engine Standard
 Create your own steam engine!
 Alcohol-fueled engine

Part No.	Ord.No.
S Merkur Steam Engine Standard	63785

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