



www.kitz.ozware.com

Due to popular demand, we have produced this catalogue containing all the kits on our web site for your convenience. If you have any questions about any of the kits, our web site or this catalogue, please contact us by email, fax or letter and we will be happy to help you but make sure we have a way of contacting you when you place your enquiry or order.

Please note that all prices in this catalogue are in Australian Dollars and are current 8th of April, 1999. These prices are subject to change without notice. For the latest prices, please check our web site.

We hope you enjoy this catalogue.

KitZ

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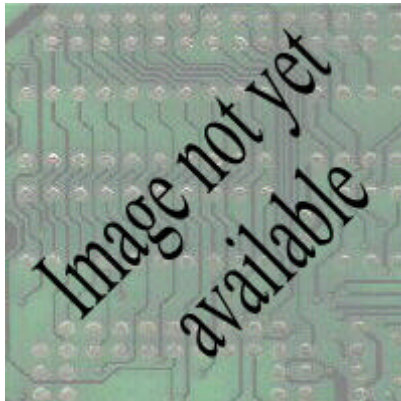
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KA0003 - 25W Amplifier Module



Power Requirements, Size and Weight:

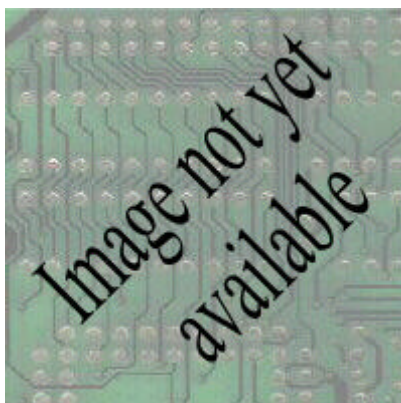
- 50VDC or +/- 25VDC rails @ 40VA per module
- 90mm x 65mm
- 0.25kg

A\$18.95

includes Aust. Sales Tax

This single IC amplifier module delivers true 25WRMS into 8 ohms. With a S/N ratio of 110dB and a low distortion rate of only 0.025%, this is the ideal kit for use in a HiFi System or as a replacement for that old one that is just about burnt out. It can be powered by either single rail or dual rail (kit comes with both options). Note: a heatsink *is* required but is not supplied. This kit is supplied in short form (i.e: you have to solder all the components to the PCB).

KA0005 - *The Champ* Audio Amplifier



Power Requirements, Size and Weight:

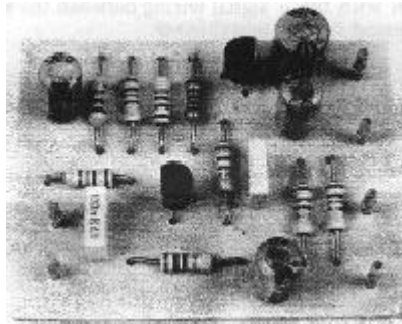
- 4-12 VDC (9 volt battery)
- smaller than standard 9V Battery
- 0.25kg

A\$5.50

includes Aust. Sales Tax

This tiny kit delivers 0.5W into 8 ohms, making it perfect for all those basic audio projects. Being smaller than a standard 9V Battery (which will power it) means it can be hidden out of sight almost anywhere! It also features variable gain, and is supplied in short form (i.e: you have to solder all the components to the PCB). A suitable preamplifier is the [KA1001](#).

KA1001 - *Pre-Champ* Versatile Preamplifier



Power Requirements and Weight:

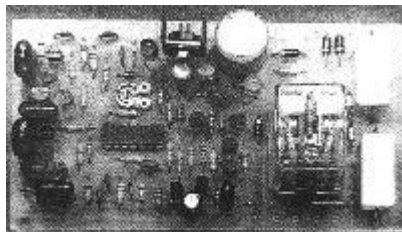
- 6-12V DC
- 0.25kg

A\$8.50

includes Aust. Sales Tax

This tiny preamplifier module delivers a signal gain in excess of 40dB. It is designed to be used with [KA0005](#) so that the amplifier can produce its maximum power output. Gain can be varied by changing a resistor and there is also the provision on the PCB for an electret microphone. This kit is supplied in short form (i.e: you have to solder all the components to the PCB).

KA2000 - Stereo Loudspeaker Protector



Power Requirements and Weight:

- 12-20VAC or 15-80V amplifier supply rail with dropping resistor
- 0.25kg

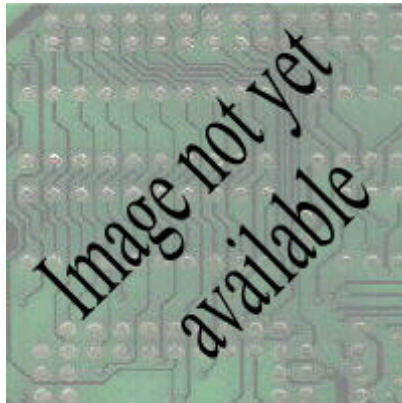
A\$28.50

includes Aust. Sales Tax

This kit is an absolute must for anyone who treasures their stereo equipment. It prevents your loudspeakers from disintegrating when your amplifier overheats and blows its output transistor(s) (This may have happened to you already: is the quality of your system degrading?). It has an intelligent de-thump circuit and it can be built into existing amplifiers or it can stand alone. This kit is supplied in short form (i.e: you have to solder all the components to the PCB) and includes a relay in addition to the PCB and components.

KA4000 - *Mini Mitter*

FM Stereo Transmitter



Power Requirements and Weight:

- One 1.5V penlight (AA) battery (lasts several months)
- 0.25kg

A\$33.25

includes Aust. Sales Tax

This single IC, miniature **stereo** FM transmitter is perfect for use around the home and car. With an output of 200 microwatts, you can plug this kit into your CD player and then listen to music via your walkman or your car stereo. The transmitter has a Harmonic Distortion of 3% for 200mVp-p input, has a stereo separation of 45dB at 1kHz and has a transmission frequency range of 88.1 to 107.9MHz. This kit is supplied in short form (i.e: you have to solder all the components to the PCB) and also includes a case and front panel.

KA4003 - *Beetle MK II*

Guitar FM Transmitter



Power Requirements and Weight:

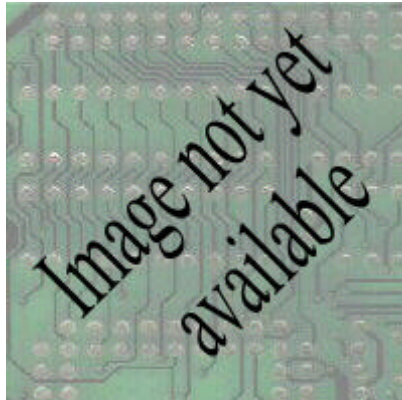
- 9V battery
- 0.25kg

A\$19.20

includes Aust. Sales Tax

This kit uses FM radio to transmit signals from a guitar or any other amplified instrument. It switches on when you plug a 6.4mm plug (from the instrument's output jack) into the input socket, and it also has a trimpot to adjust the input levels. This kit is supplied in short form with PCB, electronic components and a case.

KA5001 - Stereo Preamp Control Module



Power Requirements, Size and Weight:

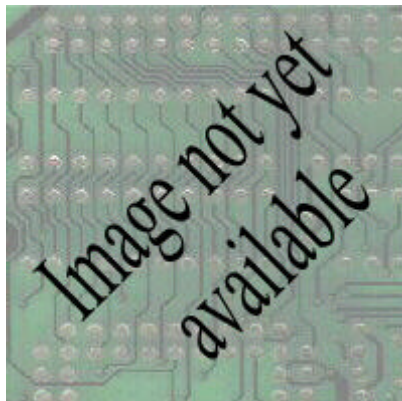
- +/- 15VDC
- 277 x 86mm
- under 0.25kg

A\$47.50

includes Aust. Sales Tax

This kit is the perfect control board for any existing amplifier or one that you choose to build for that matter! The kit has a stereo headphone socket, separate trim-pots for treble, bass, balance and volume and separate push-buttons for tone defeat, mono/stereo selection and source/tape selection. It has a T.H.D. of less than 0.008, a S/N ratio of -102dB and a frequency response of 10Hz to 100kHz. This kit is supplied in short form (i.e: you have to solder all the components to the PCB).

KC0000 - *Screecher* Car Alarm



Power Requirements and weight:

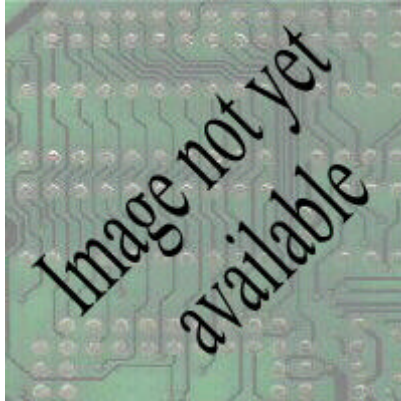
- 12-15VDC (car power supply)
- 0.25kg

A\$28.45

includes Aust. Sales Tax

This little car alarm is designed to frighten the living daylight out of any car thief! When your car is broken into, this kit activates a shrill 116dB *Screecher* Siren inside the car, which will make the thief incapable of stealing your car and keeping his hearing. The alarm has a dash mounted lamp flasher, entry and exit delays, a three second "soft alarm" to remind you to turn it off, and automatic resetting. Two inputs that respond to a change in state are provided as triggers. Installation is simple with the use of a basic on/off switch that can be hidden. This kit is supplied in short form with all the components, including the screecher, PCB, lamp and switch.

KC0001 - Engine Immobiliser Kit



Power Requirements and Weight:

- Connection to points on car
- 0.25kg

A\$23.75

includes Aust. Sales Tax

This car engine immobiliser disables your ignition on an intermittent basis, giving the impression that there is something wrong with your vehicle by stalling it. The kit allows the engine to be started but will stall the engine after 3-5 seconds and will keep on doing so until the circuit is disabled via a hidden switch. Infuriated thieves will probably pump the accelerator and make their problem worse by flooding the engine! Being intermittent, this kit will not damage your ignition coil and can be used with either a conventional or electronic ignition system. This kit is supplied in short form with PCB, all components, connectors, cables and a case.

KC1000 - Smart Dual 12V Battery Isolator Kit



Power Requirements and Weight:

- 0.5kg
- See below for power

A\$42.50

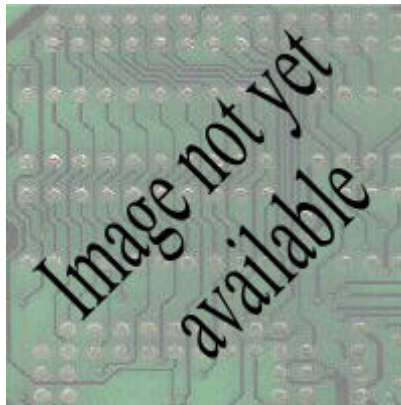
includes Aust. Sales Tax

This handy kit is really useful for operating car fridges or other devices off a second battery while the engine is not running, preserving the main battery for starting the engine. The kit automatically isolates the second battery once the engine is stopped and then re-engages the circuit (controlled by MOSFET transistors that handle approx. 100A) to recharge the battery when the engine is started. This kit also features LED battery status indicators and is housed in a weatherproof die-cast case. The kit is supplied in short form with all electronic components, battery terminals, casing, cables and PCB.

KC6001 - Programmable Electronic Ignition

Weight:

- under 0.5kg



A\$61.75

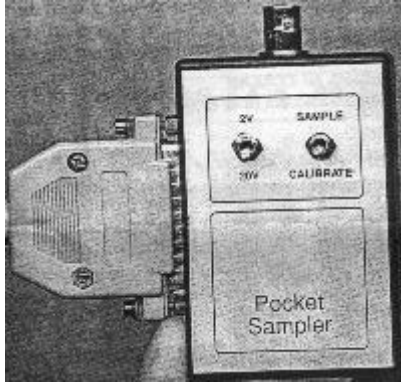
includes Aust. Sales Tax

Ever wanted to make your car engine run *exactly* the way you wanted it to? With this kit, you get total control over your engine by letting you set the following parameters:

- Rev limit
- Number of cylinders
- RPM at which ignition advance begins
- RPM for full advance
- Vacuum advance
- Maximum advance angle

Another neat feature of this kit is that it has the ability to store 2 different sets of parameters so if you have a dual fuel type car (eg: Petrol and LPG), you can change optimum settings with a few keypresses. The kit also has a tachometer output and a 2 digit security code. The kit is supplied in short form with all electronic components, keypad, LED display, pre-programmed microprocessor and PCB, and comes with comprehensive programming and assembly instructions.

KE0001 - Pocket Sampler for PCs



Power Requirements and Weight:

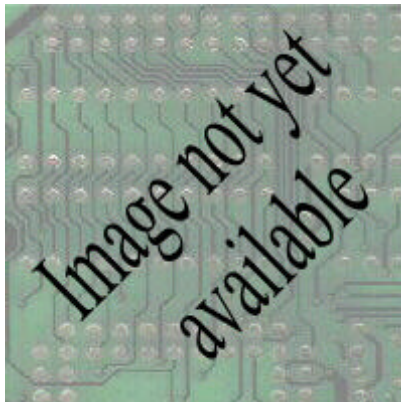
- No external power required
- 0.25kg

A\$28.50

includes Aust. Sales Tax

This kit connects to your computer's parallel port to give readings on whatever you happen to connect the kit to. For example, you can log the charging voltages of Ni-Cad batteries or use the kit as a low frequency CRO for signals up to 5kHz. The readings are given in an 8-bit resolution and you have two voltage ranges to choose from: 0-2V and 0-20V. This kit is supplied in short form with PCB, all electronic components, connectors, case and front panel.

KE0002 - 24 Line I/O Card for PCs



Power Requirements and Weight:

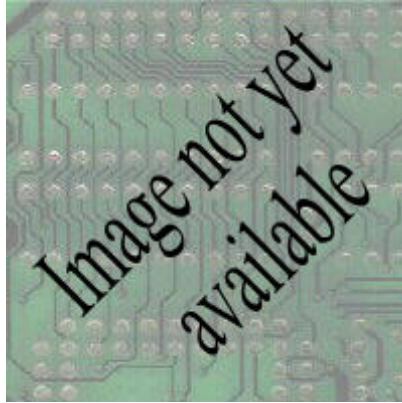
- Provided by PC
- under 0.5 kg

A\$42.70

includes Aust. Sales Tax

This card plugs into a spare ISA slot on your PC's motherboard, giving a total of 24 digital lines, allowing it to interface with any outboard triac drivers, relays, SCRs or input isolation circuitry. Using this card, you can control your home security, your garden watering, robotic arms or just about anything! This extremely easy to make kit is supplied in short form with all electronics components, double sided plate-through PCB, IDC connectors, cables and sample programming information.

KE0009 - Parallel Port I/O Interface Kit



Power Requirements and Weight:

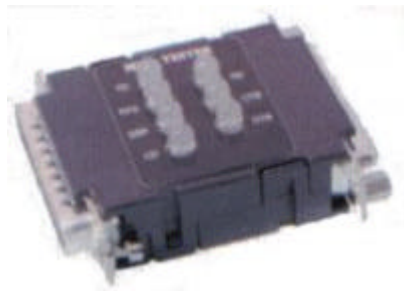
- supplied by the computer
- under 0.25kg

A\$50.00

includes Aust. Sales Tax

This kit provides a means to control any application you like using a PC. It connects to a parallel port, supplying you with 8 opto-isolated inputs and 8 relay outputs. Up to 8 of these kits can be daisy chained through one parallel port and you don't need a fast computer to run them, even something as old as an XT will do the job. Included is a Q-Basic program listing to get you up and running and you can customise this to suit your needs. Examples for use of this card are watering the garden, stage lights, model railways and robotics. This kit is supplied in short form with all electronics components, PCB, parallel port connector and 8 DPDT relays.

KE0010 - RS232 Mini Tester



Power Requirements and Weight:

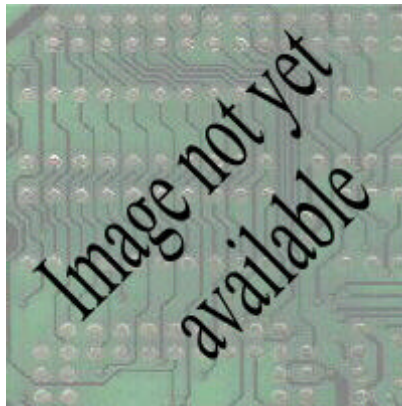
- Supplied by the computer
- under 0.25kg

A\$16.10

Includes Aust. Sales Tax

This pre-built kit indicates RS232 interface line conditions using bicolour (red and green) LEDs. Monitored lines are TD, RD, RTS, CTS, DSR, DTR and CD. All pins on the D25 (male/female) connector are straight through, making it ideal for monitoring activity over a serial cable, null modem or to external modem. This kit is pre-built, needing no assembly.

KE6001 - PC Controlled Arbitrary Waveform / Function Generator



Power Requirements and
Weight:

- 240V AC
- 1.5kg

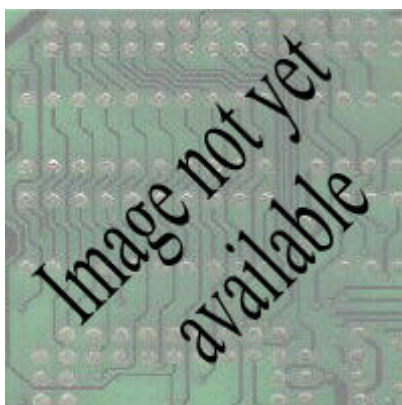
A\$94.00

includes Aust. Sales Tax

This kit connects to your PC's parallel port to produce signals of virtually any desired waveform at frequencies from below 0.25Hz to beyond 100kHz. The generator is software driven and will allow you to download waveforms from your PC and play them back at the desired frequency. Up to 32kB of data can be stored on the on-board RAM. This kit is supplied in short form with all electronic components, mains transformer, case, front panel, PCBs, sockets, switches and connectors.

Notes: The transformer in this kit is for use with a 240V power supply. People in countries that do not use 240V mains will have to obtain a transformer relevant to their power supply voltage.

KF0000 - Miniature FM Transmitter



Power Requirements and
Weight:

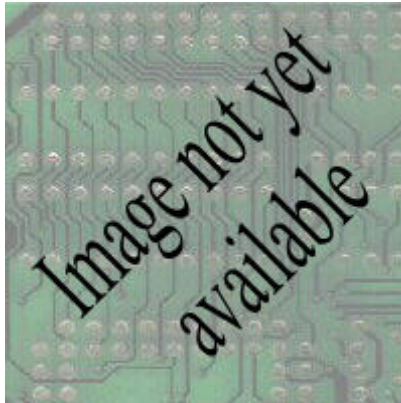
- 9V Battery (not supplied)
- 0.25kg

A\$10.25

includes Aust. Sales Tax

If you are new to the world of kit building, this is the kit for you. This easy to build FM transmitter does not suffer for drift, low power output or frequency, even when you pick it up. All you need is an FM radio to pick up the transmissions. This kit is supplied in short form with PCB, battery connector and all electronic components.

KF0003 - *Minder* FM Wireless Microphone



Power Requirements and Weight:

- 9V Battery (not supplied)
- 0.25kg

A\$12.25

includes Aust. Sales Tax

This is a very simple-to-build wireless microphone that can be used for many different applications. All you need is an FM radio to pick up the transmissions. This kit is supplied in short form with PCB, battery connector and all electronic components.

KF1002 - *Big Ear* Parabolic Dish Bug



Power Requirements and Weight:

- 2 AAA batteries (not supplied)
- 0.25kg

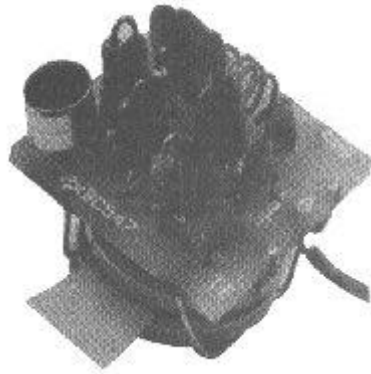
A\$10.90

includes Aust. Sales Tax

Ever wanted to hear what the people up the street are saying? This FM bug is mounted in a parabolic dish, which amplifies the microphone's sensitivity. By adjusting the focal point of the dish, you can vary the target distance so you can listen to conversations that are out of earshot. This kit is supplied in short form with all electronic components and PCB.

Note: This kit is **not** supplied with a parabolic dish.

KF1005 - *Cube of Sugar* sized FM Bug



Power Requirements and Weight:

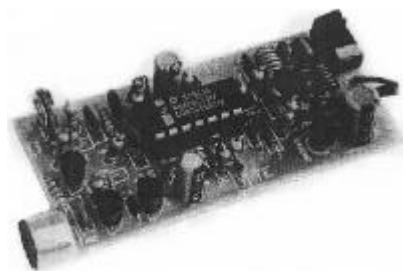
- 2 3V Lithium Cells (watch battery)
- under 0.25kg

A\$13.35

includes Aust. Sales Tax

This incredible little FM bug has a range of about 500 metres and it is the size of an ordinary cube of sugar! It uses two watch batteries to power itself and a sensitive electret microphone to pick up sound. To build this kit, a fairly high level of skill is necessary as all the components are **very** close together and the tracks on the PCB are very short. This kit is supplied in short form with all electronic components and PCB.

KF1009 - *VOX* Voice Activated FM Bug



Power Requirements and Weight:

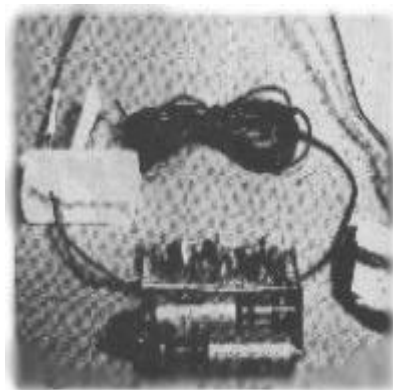
- 4 AAA Cells
- under 0.25kg

A\$25.15

includes Aust. Sales Tax

This long range FM Bug has two very special features: it is voice activated (saves battery power: up to 800 hours of battery life) and it has what is called a homing beep. This homing beep allows you to tune in to the bug using an FM radio while it is off and lets you find it again easily when it does switch on. It will switch on when it hears a voice at normal volume from 5 metres away and a whisper from 3 meters! On average, this bug will transmit 600 metres but careful peaking of the circuit and correct antenna positioning, a huge 1 kilometre range can be achieved! This kit is supplied in short form with all electronic components and PCB.

KF1012 - *Wall Bug* High Performance FM Bug



Power Requirements and Weight:

- 2 AAA batteries (not supplied)
- 0.25kg

A\$10.90

includes Aust. Sales Tax

This amazing bug uses a piezo diaphragm to make whole walls into microphones. You can connect this bug to glass, concrete, plaster... just about anything. The bug has a transmission range of about 200m. This kit is supplied in short form with all electronic components, PCB and a piezo diaphragm.

LED Power Meter for FM Bug tuning

To get the most out of the Professional series FM Bugs, an RF meter is used to maximise output but seeing though the output of these devices is so small, convential RF power meters cannot be used and so we need an RF milliwatt meter. It uses a very simple circuit and a conventional multimeter to show the readings. Across the input is a LED and resistor and the degree of brightness of the LED along with the voltage reading on the multimeter, gives an indication of the energy level. A digital multimeter can be used but the presence of RF may cause false readings. To this extent, some analogue multimeters may get full scale deflections in the 15 and 250V ranges but the LED will never lie.

We now supply these in kit form. They cost A\$2.00 each.

KM5001 - Laser Pointer



Power Requirements and Weight:

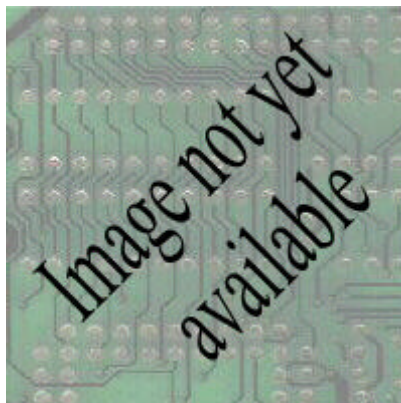
- 3 'LR 44' size batteries supplied with kit
- under 0.25kg

A\$39.00

includes Aust. Sales Tax

Make your presentations, lectures and speeches look really professional with this great little laser pointer. This tiny pointer (it's only 7 centimetres long!) is very robust with a steel case in a silver finish and is very easy to use as there is only one button. The wavelength of the LASER Diode is 660 - 680nm with a maximum output power of under 5mW. It complies with 21CFR, Part 1040.10 (U.S. Department of Health and Human Services - Performance Standard for Laser Products) and is classified as a Class IIIA LASER Product which means the LASER is safe on skin and will not cause injury to the eye if directly viewed momentarily. The laser pointer comes with a keychain so you won't lose it easily and a storage case so it won't get scratched.

KM3002 - Flexitimer MK II



Power Requirements and Weight:

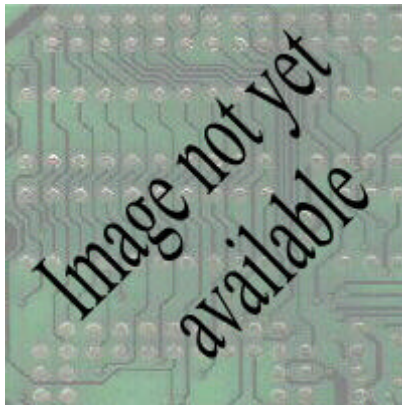
- AC or DC on-board bridge circuit
- 0.25kg

A\$28.50

includes Aust. Sales Tax

The Flexitimer MKII can be used for any timing application. It can be accurately programmed to produce two different time periods, and is either synchronised with mains power (50Hz) or with an internal RC clock. It can also be used as a cyclic timer (eg: reticulation system control). Time periods from a few seconds to a few months can be set with the use of DIP switches and a diode matrix. This kit is supplied in short form with all electronic components, PCB, relay and comprehensive instructions for programming the timer.

KP1006 - Universal 15V Power Supply



Power Requirements and Weight:

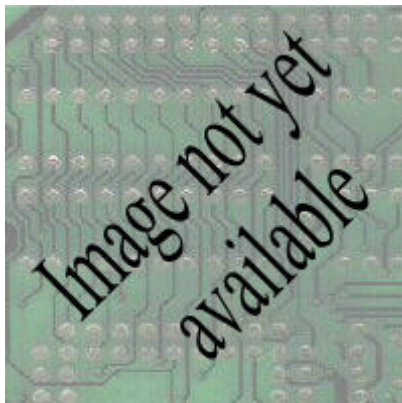
- 12-30V AC
- 0.25kg

A\$13.25

includes Aust. Sales Tax

This small kit enables you to obtain 15V+, 15V- or ± 15 V DC from different transformer and rectifier combinations. You can get ± 15 rails from a 12VAC plugpack, 12VAC transformer or 30VAC centre tapped transformer. Note: Transformer is not included.

KV3001 - NTSC to PAL Converter



Power Requirements and Weight:

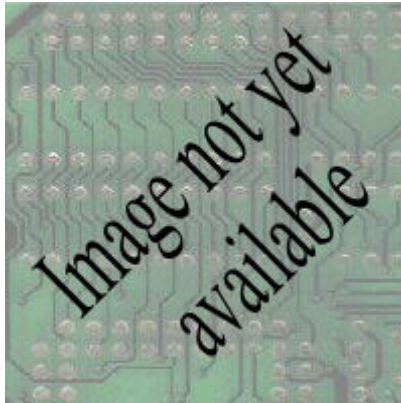
- 12VAC (not supplied)
- 1.0kg

A\$142.00

includes Aust. Sales Tax

Ever wanted to view an NTSC source but couldn't because you use a PAL television? This kit overcomes this problem and is very simple to use with NTSC Video and Audio inputs and PAL Video, Audio and RF (channels 0 and 1) outputs. This kit requires a 12VAC Plugpack or similar device but this is not included with the kit. The kit is supplied in short form with PCB, electronic components and connectors.

KV3002 - Video Enhancer and Stabiliser



Power Requirements and Weight:

- 240VAC
- 1.0kg

A\$66.50

Includes Aust. Sales Tax

This great kit improves image quality from bad video tapes when making copies. Circuitry in the kit also eliminates *piggyback* information like test signals and teletext to improve image stability. The kit is supplied in short form with PCBs, electronic components and connectors. Note: people who do not use 240V / 250V (50Hz cycle) mains electricity will have to supply their own power transformer. **Note:** This kit is PAL only; it will not work with NTSC sources.

KitZ Freight Costs

The tables below contain the codes and costs for shipping to certain destinations. All prices quoted are current at the time of the last update to this catalogue and include packaging costs.

Post

	D	E	F	G	H
up to 0.25kg	A\$6.00	A\$4.75	A\$5.25	A\$5.75	A\$4.25
up to 0.5kg	A\$6.00	A\$7.75	A\$8.75	A\$9.75	A\$6.75
up to 1.0kg	A\$9.00	A\$13.75	A\$15.75	A\$17.75	A\$14.25
up to 2.0kg	A\$9.00	A\$25.75	A\$29.75	A\$33.75	A\$21.75
up to 3.0kg	A\$9.00	A\$31.75	A\$37.75	A\$43.75	A\$25.75

Australian destinations: average delivery time is 2 working days if in Metropolitan areas but may take up to a week depending on the location (sent by Express Post).

International destinations: Economy Air freight can take up to 2 weeks to deliver and some countries have weight restrictions.

Note: Insurance is an extra cost

- Internationally: A\$3.00 + A\$2.00 per A\$100 of value.

Code	Country / Region
D	Australia
E	Asia
F	USA, Canada, the Middle East, Cyprus
G	Europe, U.K, South America, Africa
H	New Zealand

Courier

	M	N	P	Q	R	S	T
up to 0.5kg	A\$8.00	A\$25.95	A\$28.10	A\$32.40	A\$41.05	A\$75.60	A\$60.50
up to 1.0kg	A\$8.00	A\$33.15	A\$39.60	A\$43.20	A\$55.45	A\$84.25	A\$74.90
up to 1.5kg	A\$9.10	A\$37.10	A\$46.44	A\$50.40	A\$66.25	A\$92.90	A\$88.60
up to 2.0kg	A\$9.10	A\$41.05	A\$53.28	A\$57.60	A\$77.05	A\$101.55	A\$102.25
up to 2.5kg	A\$9.10	A\$45.00	A\$60.12	A\$64.80	A\$87.85	A\$110.20	A\$115.95
up to 3.0kg	A\$9.10	A\$54.00	contact us	contact us	contact us	contact us	contact us

Courier delivery can take up to a week.

Code	Carrier	Country / Region
M	Australian Air Express	Australia
N	FedEx	New Zealand
P	FedEx	Malaysia, Singapore, Hong Kong, Saipan, Indonesia
Q	FedEx	USA, Canada
R	FedEx	United Kingdom, France, Germany, Italy, Sri Lanka, Belgium, Switzerland, India
S	FedEx	Algeria, Cyprus, Cameroon, Kenya, Zimbabwe, the Middle East
T	FedEx	South America, Scandanavia, South Africa

If your country or region is not listed on the above tables, please email kitz@ozware.com or fax us on +61 8 9328 2650 so we can give you prices for freight to your country. Certain countries have limits on *Economy Air* (usually 0.5kg) so if a package is over the limit, we will contact you about alternative postal methods (either Air Mail or Sea Mail).

All prices in these tables are subject to change without notice.

