

VK QRP Club

COMPONENTS CATALOGUE & PRICE LIST

(20 March 2017)

Subject to the latest Special Prices advertised in Lo-Key
and sometimes modified in this document.

Don Callow VK5AIL

U2 39 King William Street, Kent Town SA 5067

Email: contact@vkqrpclub.org

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E. & O.E. applies to this Price List.

The current & most up-to-date PDF version is at our
website www.vkqrpclub.org

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ORDERING

Ordering

Give brief description & quote catalogue numbers when ordering.

Prices may change any time without notice.

Many low volume items will not be restocked when they run out.

Make cheque to CW OPERATORS' QRP CLUB and cross 'Not Negotiable'.

For any size order, **add \$8.00 per order for postage & packaging** within Australia.

Items are intended for CW Operators' QRP Club Members only.

Please give name, callsign (if you have one) and membership number (unless you are joining our club at the same time).

Information and application forms available on CW Ops website

<http://www.users.on.net/zietz/qrp/club.htm> and by request.

To join for one year add: VK AU\$15 - Asia-Pacific Postal Zone AU\$16 - Rest-of-World DX AU\$18.

You can combine payments for components and subs.

Send orders with payment to address in heading area above. Direct

debit can be accepted by arrangement.

Tell us your **email address** in case there is a query about your order.

Specials & Recent Changes to List

See 'Bits n Kits' in recent issues of Lo-Key. These usually apply for orders received before nominated dates.

Bonus Bits

These are at no extra cost to you!

Bonus Bits will be included with each order, if available and provided you ask. This scheme may be changed or terminated at any time without notice.

Current Price List

You can download an Acrobat pdf file from our website. This is kept up-to-date or nearly so.

Club Files

Other useful Club information is available from our website including most New Member's Pack information such as our promotional brochure and membership application form we would like you to pass to prospective members.

The Fine Print

We cannot guarantee availability and prices may change any time without notice. Descriptions are not always accurate.

The responsibility for all outcomes of using components e.g. replacement/substitute transistors, diodes etc. is yours.

We can give no more than the equivalent of the normal commercial warranty for items sold. As we do not control the means of delivery (usually Australia Post) we are not responsible for losses or damage in transit.

E. & O.E. applies to everything in this Price List.

1. PAST ISSUES OF LO-KEY SPECIAL LOW PRICES FOR 2017 ...

... to reduce storage space

Please email Don VK5AIL contact@vkqrpcplub.org for a quote including postage & packaging for your chosen issue numbers (or year/months).

Only 10 cents each for excess stocks up to Lo-Key #128 (December 2015), subject only to availability. \$3.00 each for #129 (March 2016) onwards or if you decide to have any out-of-stock issues printed.

2. KITALOGUE (MANUALS)

Only MANUALS are available (no kitsets). They include comprehensive construction details.

'TCF' 3.5 MHz SSB/CW QRP Transceiver MANUAL. Project by Drew Diamond VK3XU #49. Also details of optional additions & mods, circuit patterns and an upgraded circuit diagram improvement on original article. 24 A5 pages. \$6.00 ea.

Flexi-Sudden multiband Rx MANUAL. A very satisfying & instructive project to build. Based on design by George G3RJV #96. See Lo-Key #25 Mar '90. BPF & VBFO module sets for Amateur bands are easily made. Component values given for BPF & VBFO module ranges 1.8 - 1.875, 3.5 - 3.7, 3.5 - 3.8, 7.0 - 7.3, 10.1 - 10.15, 14.0 - 14.35, 18.068 - 18.168, 21.0 - 21.45, 24.89 - 24.99 & 28.0 - 29.7 MHz. \$5.00 ea.

Simple Electronic Keyer MANUAL. \$1.00 ea.

Sensitive SWR Meter MANUAL. A classic Drew Diamond VK3XU project. See Lo-Key #19 Sep '88 & #25 Mar '90 p.16 and Amateur Radio Apr '83. \$4.00.

Forrestfield 21 MHz CW QRP Transmitter MANUAL. A modular design by Rod Green VK6KRG #28, including the use of a phase locked loop. Lo-Key articles - 36 A5 pages. \$6.00 ea.

3. RF (UHF) CONNECTORS

SO-239 to SO-239 joiner, UHF coax adaptor. \$1.50 ea. (Last 6 in stock)

SO-239 panel mount socket, UHF coax connector, square flange-mount type. \$1.50 ea.

4. TOROIDS, CHOKES & OTHER INDUCTORS

Substitute Toroids: See Lo-Key #46 Jun '95 p.16 for 'A Table of Equivalent Toroids' (minor corrections in Lo-Key #48 Dec '95 p.6). Successful substitutions of similar materials can be made e.g. Philips ferrite for Amidon or Neosid ferrite. Avoid replacing iron powder with ferrite, especially in tuned circuits. Avoid replacing chokes with substitutes physically smaller. Coils and coil former terminology: Generally, coil formers and kits are not wound - you do it.

Toroidal core Neosid 4327R/2/F25 ferrite (grey). 13.5 mm o.d.6.6m ID 6.1Hz. 90 cents ea.

6-Hole bead, Philips, common type usually colour code green. 6 o.d. x 10 mm long. 40 cents ea.

Toroidal core Amidon T-50-2 (red) iron powder. 2 - 10 MHz tuned circuits; 0.5 - 30 MHz broadband. \$2.40 ea. (Last 3 in stock)

Toroidal core Amidon T-50-6 (yellow) iron powder. 10 - 20 MHz tuned circuits; 2 - 50 MHz broadband. \$2.40 ea. (Last 4 in stock)

Toroidal core Micrometals T-60-2 (red) iron powder. 2 - 10 MHz tuned circuits; 0.5 - 30 MHz broadband. Seems very similar electrically to Amidon T-68-2. \$2.40 ea. (Last 1 in stock)

Toroidal core Neosid 4327R/1/F14 ferrite (grey). 14 mm o.d. OK to 5 MHz. 90 cents ea. (Last 4 in stock)

Toroidal core Siemens 14.5 mm o.d. x 8.5 i.d. x 6.5 high (blue). Probably for suppression, May be iron powder. Worth experimenting with. 20 cents ea.

Chokes. Available values: $4\mu\text{H}$ & 220 μH . Physically similar to a 1/4W resistor. 40 cents ea.. (Last 13 in stock)

Screening beads. Mixed, including ferrite FX1115 and similar. 5 cents ea.

5. (Not used)

6. CAPACITORS

Polystyrene Capacitors

Polystyrene (styroseal) capacitors, 330 pF, thin wire leads 30 cents ea. Buy 10 or more for 20 cents each.

Polystyrene (styroseal) capacitors. Available values: 51, 75, 200, 330, 1000, 1200, 1500, 1600, ~~4870~~ pF. 30 cents ea.

Monolithic Capacitors

Monolithic capacitor, 68 pF (6 kV). Blue colour. 5 cents ea.

Monolithic capacitor, 0.01 μF or 10 nF 103. Blue colour. 10 cents ea.

Monolithic capacitor, 0.022 μF or 22 nF. Blue colour. 10 cents ea.

Monolithic capacitor, 0.047 μF or 47 nF. Blue colour. 10 cents ea.

Monolithic capacitor, 0.22 μF or 220 nF. Blue colour. 10 cents ea.

Monolithic capacitor, 0.1 μF or 100 nF 104 (50 V). Blue colour. 10 cents ea.

7. TRANSISTORS

Catalogue sequence: In alphanumeric order, numbers sort before letters.

2N2222 Si NPN high speed switch. TO-18 metal case. See BC546B & PN100 \$1.00 ea.

2N3055 Si NPN power transistor. 10A. TO-3 metal case, with insulators. Corresponds to the MOSFET MTP3055. \$2.00 ea. (Last 3 in stock)

2N3566 Si NPN transistor. 200mA 30V $h_{fe} = 150$ to 600. TO-105 case. Similar to BC107. 5 cents ea. (Last 8 in stock)

2N4126 Si PNP transistor. Low noise audio amp. TO-92 plastic case. 10 cents ea.

2N6551 Si NPN transistor. 1A, 60V. TO-220 case. Replaces BD519. 20 cents ea

BC327 Si PNP signal transistor. 0.5A, 45V, $hFE = 250$ to 600. TO-92 plastic case. Similar to DSE Z-2240 (Note: Not NPN). 5 cents ea.

BC337 Si NPN signal transistor. 0.5A, 45V, $hFE = 100$ to 600. TO-92 plastic case. 5 cents ea.

BC338 Si NPN transistor. 0.5A, 25V, $hFE = 100$ to 600. TO-92 plastic case. 5 cents ea.

BC546B Si NPN small signal transistor. 100 mA, 6hhV, $hFE = 100$ to 450. TO-92 plastic case. Replaces 2N2222 & 2N2222A 5 cents ea. (Last 15 in stock)

BC547, BC547A & BC547B Si NPN transistor. TO-92 plastic case. BC547B replaces 2N3904. 5 cents ea.

BC548 Si NPN transistor. TO-92 plastic case. General purpose small signal amp. 5 cents ea. (Last 3 in stock)

BC549 Si NPN transistor. TO-92 plastic case. Available: BC549 & 9B. 5 cents ea.

BC559B Si PNP transistor. 100mA, 30V, $hFE = 125$ to 800. TO-92 plastic case. 5 cents ea. (Last 13 in stock)

BC639 Si NPN audio output transistor. 1 A, 80V, $hFE = 40$ to 250. TO-92 plastic case. 5 cents ea.

BC640 Si PNP audio output transistor. 1 A, 80V, $hFE = 40$ to 250. TO-92 plastic case. Replaces BC327. 5 cents ea.

BD139 Si NPN power amp transistor. 1.5A, 80V, 8W. TO-126 case. 20 cents ea.

BD140 Si PNP power amp transistor. 1.5A, 80V, 8W. TO-126 case. 20 cents ea.

BD238 Si PNP transistor. TO-126 case. 20 cents ea

BD649 Si NPN transistor. TOP-66 (TO-220AB) case. 20 cents ea. (Last 4 in stock)

BD682 Si PNP Darlington transistor. 4A, 100V, 40W. TO-126 case. 20 cents ea.



BDV64B Si PNP power transistor. 15A, 100V, $hFE = 1000$ min. 80 cents ea.

BDV65B Si NPN power transistor. 15A, 100V, $hFE = 1000$ min. 80 cents ea.

BDX77 Si NPN power transistor. TO-220 case. Replaces BD7899. 30 cents ea.

BF469 Si PNP power transistor 50mA, 250V high voltage. TO-126 case. 20 cents ea. (Last 7 in stock)

BF470 Si PNP power transistor 50mA, 250V high voltage. TO-126 case. 20 cents ea. (Last 4 in stock)

BS170 VMOS N-channel FET transistor. \$0.80 ea.

BSD213 N-channel DMOS FET transistor. TO-72 metal can. For high speed switching in audio and high frequency applications. \$0.50 ea. (Last 10 in stock)

IRF510 MOSFET power transistor. TO-220 case. Replaces IRF511, but is 'stronger'. \$2.00 ea.

IRFZ32 MOSFET transistor $V_{DS} = 50V$, $P_{DS} = 75W$, I_D cont. = 25A. TO-220AB case. Excellent for audio and almost unburstable! 50 cents ea. or \$1.00 ea with hardware.

MJ15003 Si NPN power transistor. 20A, 140V, $hFE = 25 - 150$. TO-3 style metal case. Similar to DSE Z-1808. \$1.00 ea. (Last 5 in stock)

MJ2955 Si PNP power transistor. TO-3 style metal case. Similar to DSE Z-2005. 30 ea.

MJE340 Si NPN power transistor. 500mA, 300V, $hFE = 30 - 240$. TO-126 case. 5 cents ea.

MJE2955T Si PNP power transistor. 10A, 60V, $hFE = 20 - 100$. TO-220 case. 20 cents ea. (Last 9 in stock)

MJE3055 Si NPN power transistor. 10A, 60V, $hFE = 20 - 100$. TO-220 case. 20 cents ea. (Last 2 in stock)

MPSA63 Si PNP low power transistor. TO-92 plastic case. 500 mA, $hFE = 30$. C788 5 cents ea.

PN100 Si NPN general purpose transistor, amp/switch. TO-92 (72) plastic case. 10 cents ea.

PN200 Si PNP general purpose transistor, amp/switch. TO-92 (72) plastic case. Replaces 2N3638, BC214, PN3645. 10 cents ea.

8. DIODES

1N4004 power rectifier diode 1A. (200 PIV). Forward surge current $I_{FSM} = 30A$. 5 cents ea.

1N4148/1N4148F fast switching diode, 75V 200mA silicon signal diode. Replaces 1N914A. 4 cents ea.

9. LEDs

3 mm dia. round red LED. 5 cents ea. (Last 24 in stock)

5 mm dia. round LED. Available colours: Yellow & orange. 5 cents ea.

5 mm dia. round infra red LED. 5 cents ea.

5 x 2 mm dia. rectangular red LED. 5 cents ea.

5 x 2 mm dia. rect. green LED. 5 cents ea.

5 x 2 mm dia. rect. yellow LED. 5 cents ea.

10. VOLTAGE REGULATORS

+1.2V to +37V adjustable voltage regulator 100 mA, LM317L 3-terminal. Plastic case similar to TO-92. Very useful - saves chasing a range of values. 90 cents ea. (Last 11 in stock)

-5V voltage regulator 100 mA, 79L05 3-terminal. Plastic case similar to TO-92. 80 cents ea. (Last 7 in stock)

LM336Z adjustable precision voltage reference. Available: 5.0V. Useful for accurate meter calibration etc. for various voltages using voltage division and related circuits. 90 cents ea.

-1V2 to -37V adjustable voltage regulator 1.5A, LM337T 3-terminal. TO-220 case. Input range 3 to 40V. Very useful, saves chasing a range of values. \$1.50 ea.

+5V voltage regulator 1A, LM340T5 (similar to 7805 variants). TO-220 case. \$1.00 ea. (Last 5 in stock)

+12V voltage regulator 1.5A, LM340T12 (7812). TO-220 case. \$1.50 ea.

+15V voltage regulator 1A, uA7815. TO-220 case \$1.00 ea. (Last 7 in stock)

+24V voltage regulator 1A, AN7824 (uA7824). TO-220 case. \$1.00 ea.

-5V voltage regulator 1A, 7905C. TO-220 case. \$1.00 ea. (Last 3 in stock)

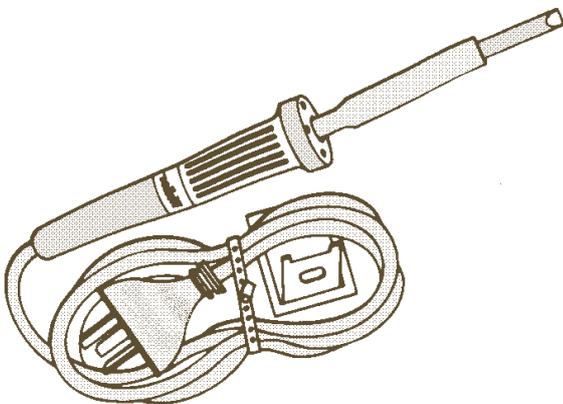
-15V voltage regulator 1A, 7915K. TO-220 case. \$1.00 ea. (Last 5 in stock)

+5V voltage regulator 3A, LM323/uA323. TO-3 case. \$4.00 ea. (Last 6 in stock)

+5V voltage regulator 5A, uA78H05. TO-3 case. \$5.00 ea.

+12V voltage regulator 1A and more, 7812K. TO-3 metal case. \$1.50 ea.

11. (Not used)



12. OTHER SEMICONDUCTORS & IC'S

Catalogue sequence: In order of main number, ignoring letters. Number of pins: Refers to Dual In-line Package (DIP) unless other is specified.

LF355 JFET input low supply current op amp. 8 pin. 50 cents ea.

LM308 precision op amp. 8 pin. Replaces uA308. 50 cents ea.

LM311 voltage comparator. 8 pin. 30 cents ea. (Last 2 in stock)

LM386 audio power amplifier. Output power N-1. 8 pin. \$1.50 ea.

LM4250 programmable amp. 18 pin. Great for meter amplifiers to increase sensitivity. See Lo- Key #26 Jun '90. \$2.80 ea. (One left)

NE602/NE612/SA602/SA612 double balanced mixer HF oscillator. 8 pin. SA version has better temperature range than NE. SA612 only \$6.00 ea.

741 general purpose op amp. 8 pin. 30 cents ea.

NE556N & MC3456P equivalent, 556 timer (dual 555). 14 pin. (G59) 50 cents ea.

IC socket, 14 pin, tin plated contacts. 4 cents ea.

13. HEATSINKS

Heatsink, TO-5 & TO-39 snap-on, aluminium for 6 mm nominal dia. (G97) 30 cents ea., thin spring steel star shape. (G97) 40 cents ea.

Heatsink, flag type snap-on, thin steel, for 6 mm nominal dia. (G98) 10 cents ea.

Heatsink large Miniwatt 40D3CB 60mm x 110 x 77mm (B1) \$1.00 ea. (Last 1 in stock))

Heatsink large Mullard W110 x D59 x H51mm (B3) \$1.00 ea. (Last 2 in stock)

14. HARDWARE

Insulators for TO-3. 20 cents ea.

Insulators for TO-220 20 cents ea.

Spacer (stand-off), hexagonal brass, 6.5 (1/4") across flats x 10 mm, M3 10 cents ea.

Screw M3 x 6 mm, pan head, mild steel. 2 cents ea.

15. CLIPSAL KEY KNOBS



Knob for Post Office Pattern Morse Key. See Lo-Key #38 Jun '93 p.25, #39 Sep '93 p.27, #40 Dec '93 p.25. These are genuine Clipsal bakelite knobs and the manufacturer no longer makes or stocks parts. \$4.00 ea.