

VK QRP Club

COMPONENTS CATALOGUE & PRICE LIST

Applies to orders received on or after 1 January 2012

Subject only to Special Prices advertised in Lo-Key,
unless those are altered in this document.

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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.

Bonus Bits

These are at no extra cost to you!

Bonus Bits will be included (if available and provided you ask) with
each order. 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 the
current, up-to-date version of our Price List.

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 you might
pass to prospective members.

The Fine Print

We cannot guarantee availability and prices may change any time
without notice.

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

You nominate month & year or issue number. \$3.00 ea. Larger numbers: \$2.80 ea. for 11 - 20 & \$2.20 ea. for 21 or more. Ask for a special reduced price if you are converting your collection to a full set.

Special price of 20 cents each for excess stock of issues No. 80, 82, 83, 86 to 90, 94 and 96 to 99 for orders received before 1 March 2011 and while stocks last.

2. KITALOGUE (MANUALS)

Only MANUALS are available, no kits. 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

D & SO-239 joiner, UHF coax adaptor. Similar to DSE P-2311. (G79) \$2.00 ea.

SO-239 panel mount socket, UHF coax connector, square flange-mount type. (G92) \$2.00 ea.

SO-239 panel mount socket, UHF coax connector, threaded-mount type. (G77) \$1.00 ea.

PL-259 line Plug for RG58 coax. Similar to DSE P-2311. (G78) 30 cents ea.

PL-259 Reducing adaptor. Similar to DSE P-2360. (G93) 30 cents 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. (G84) 90 cents ea.

6-Hole bead, Philips. Colour code green. 6 o.d. x 10 mm long. (G08) 40 cents ea.

Toroidal core Amidon FT-50-43 ferrite. 0.01 - 1 MHz tuned circuits, 1 - 50 MHz broadband. (G05) \$2.40 ea.

Toroidal core Amidon T-50-2 (red) iron powder. 2 - 10 MHz tuned circuits; 0.5 - 30 MHz broadband. (G01) \$2.40 ea.

Toroidal core Amidon T-50-6 (yellow) iron powder. 10 - 20 MHz tuned circuits; 2 - 50 MHz broadband. (G02) \$2.40 ea.

Toroidal core Amidon T-68-2 (red) iron powder. 2 - 10 MHz tuned circuits; 0.5 - 30 MHz broadband. (G03) \$2.40 ea.

Toroidal core Amidon T-68-6 (yellow) iron powder. 2 - 10 MHz tuned circuits; 0.5 - 30 MHz broadband. (G04) \$2.40 ea.

Toroidal core Neosid 4327R/1/F14 ferrite (grey). 14 mm o.d. OK to 5 MHz. (G06) 90 cents ea.

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. (G09) 20 cents ea.

Chokes. Available values: 1 uH & 220 uH. Physically similar to a 1/4W resistor. (G07) 60 cents ea.

Screening beads. Mixed, including ferrite FX1115 and similar. (G94) 10 cents ea.

5. RESISTORS

(None stocked)

6. CAPACITORS

Polystyrene Capacitors

Polystyrene (styrozeal) capacitors, 330 pF, thin wire leads (G89) 40 cents ea. Buy 10 or more for 30 cents each.

Polystyrene (styrozeal) capacitors. Available values: 51 (G42), 75 (G43), 200 (G21), 330 (G30), 1000 (G27), 1200 (G31), 1500 (G28), 1600 (G29), 1870 pF* (G82), 1800 pF (G94), 2700 pF (G99), 3300pF (G99), 3600pF (G101)3900pF (G101), 4700 pF (G100), 5600pF (G99), 6800pF (G100), 8200pF (G101), 40 cents ea.

*1870 is within 5% of 1800. Various voltages, mostly 250 to 630V. 1870 is a precision, block encapsulated styro., ideal for building up larger values of capacitance. Philips KS - top quality and stability. (Var) (G82) 60 cents ea.

Monolithic Capacitors

Monolithic capacitor, 68 pF (6.8 kV). Blue colour. (G11) 20 cents ea.

Monolithic capacitor, 0.01 uF or 10 nF 103. Blue colour. (G12) 20 cents ea.

Monolithic capacitor, 0.022 uF or 22 nF. Blue colour. (G13) 20 cents ea.

Monolithic capacitor, 0.047 uF or 47 nF. Blue colour. (G15) 20 cents ea.

Monolithic capacitor, 0.22 uF or 220 nF. Blue colour. (G14) 20 cents ea.

Monolithic capacitor, 0.1 uF or 100 nF 104 (50 V). Blue colour. (G10) 20 cents ea.

Trimmer Capacitors

Beehive type trimmer capacitor. 25pF (G123 & carton) 30 cents each or \$1.00 for card of 10.

7. TRANSISTORS

Catalogue sequence: In alphanumeric order, numbers before letters.

2N2222 Si NPN high speed switch. Metal TO18 case. See BC546B also PN100 (G76) \$1.15 ea.
2N3055 Si NPN power transistor. 10A. TO-3 metal case, with insulators. Corresponds to the MOSFET MTP3055. (G53) \$2.80 ea. (last 3 in stock)
2N3442 Si NPN power transistor. 10A, 160V, $h_{fe} = 20$ to 70. TO-3 metal case. (G55) \$1.50 ea.
2N3569 Si NPN transistor. 500mA, 80V, $h_{fe} = 100$ to 300. TO-92 plastic case. (G54) 10 cents ea.
2N3905 Si PNP general purpose amp and switching transistor. TO-92 plastic case. (G57) 10 cents ea.
2N4126 Si PNP transistor. Low noise audio amp. TO-92 plastic case. (G32) \$0.30 ea.
2N4250 Si PNP transistor. Low noise audio amp. TO-92 plastic case. (G56) 10 cents ea.
2N6027 programmable unijunction transistor (UJT). (G58) 50 cents ea.
2N6551 Si NPN transistor. 1A, 60V. TO-220 case. Replaces BD519. (G86) 70 cents ea
BC178: See BC558.
BC327 Si PNP signal transistor. 0.5A, 45V, $h_{fe} = 250$ to 600. TO-92 plastic case. Similar to DSE Z-2240 (Note: It is not NPN). Not 35 cents. (G24 & G25) 10 cents ea.
BC337 Si NPN signal transistor. 0.5A, 45V, $h_{fe} = 100$ to 600. TO-92 plastic case. (G65) 15 cents ea.
BC338 Si NPN transistor. 0.5A, 25V, $h_{fe} = 100$ to 600. TO-92 plastic case. (G65) 10 cents ea.
BC546B Si NPN small signal transistor. 100 mA, 6V, $h_{fe} = 100$ to 450. TO-92 plastic case. Replaces 2N2222 & 2N2222A (G126) \$0.20 ea.
BC547, BC547A & BC547B Si NPN transistor. TO-92 plastic case. BC547B replaces 2N3904. (G22 & G23) 5 cents ea.
BC548 Si NPN transistor. TO-92 plastic case. General purpose small signal amp. (G66) 10 cents ea.
BC549 Si NPN transistor. TO-92 plastic case. Available: BC549 & 9B. (G66) 15 cents ea.
BC558 Si PNP transistor. 100mA, 30V, $h_{fe} = 75$ to 800. TO-92 plastic case. Replaces BC178. (G67) 15 cents ea.
BC639 Si NPN audio output transistor. 1 A, 80V, $h_{fe} = 40$ to 250. TO-92 plastic case. (G67) 10 cents ea.
BC640 Si PNP audio output transistor. 1 A, 80V, $h_{fe} = 40$ to 250. TO-92 plastic case. Replaces BC327. (G68) 10 cents ea.
BD139 Si NPN power amp transistor. 1.5A, 80V, 8W. TO-126 case. (3073) (G68) 80 cents ea.
BD140 Si PNP power amp transistor. 1.5A, 80V, 8W. TO-126 case. (G68) 80 cents ea.
BD238 Si PNP transistor. TO-126 case. (G85) 40 cents ea
BD649 Si NPN transistor. TOP-66 (TO-220AB) case. (G87) 60 cents ea.
BD682 Si PNP Darlington transistor. 4A, 100V, 40W. TO-126 case. (G69) 90 cents ea.
BDV64B Si PNP power transistor. 15A, 100V, $h_{fe} = 1000$ min. Not \$5.50. (G69) \$1.20 ea.
BDV65B Si NPN power transistor. 15A, 100V, $h_{fe} = 1000$ min. (G69) \$1.20 ea.
BDX77 Si NPN power transistor. TO-220 case. Replaces BD7899. (G88) 90 cents ea.

BF470 Si PNP power amp transistor, high voltage. 50mA, 250V. TO-126 case. (G96) 50 cents ea.
BS170 VMOS N-channel FET transistor. (G86) \$1.10 ea.
BSD213 N-channel DMOS FET transistor. TO-72 metal can. For high speed switching in audio and high frequency applications. (G74) \$1.00 ea.
~~IRF510 MOSFET transistor. TO-220 case. Replaces IRF511, but is stronger. (4070) (rail) \$6.00 ea.~~
IRFZ32 MOSFET transistor $V_{DS} = 50V$, $P_{DS} = 75W$, I_D cont. = 25A. TO-220AB case. Excellent for audio and almost unburstable! (G33) \$1.00 ea. or \$1.50 ea with hardware.
MJ15003 Si NPN power transistor. 20A, 140V, $h_{fe} = 25 - 4497$ 150. TO-3 metal case. Similar to DSE Z-1808. Not \$10. (G70) \$3.00 ea.
MJ2955 Si PNP power transistor. TO-3 metal case. Similar to DSE Z-2005. Not \$3. (G71) \$1.00 ea.
MJE340 Si NPN power transistor. 500mA, 300V, $h_{fe} = 30 - 240$. TO-126 case. (G70) 20 cents ea.
MJE2955T Si PNP power transistor. 10A, 60V, $h_{fe} = 20 - 100$. TO-220 case. (G53) 40 cents ea.
MJE3055 Si NPN power transistor. 10A, 60V, $h_{fe} = 20 - 100$. TO-220 case. (G53) 40 cents ea.
MPSA63 Si PNP low power transistor. TO-92 plastic case. 500 mA, $h_{fe} = 30$. (G83) C788 15 cents ea.
PN200 Si PNP general purpose transistor, amp/switch. TO-92(72) plastic case. Replaces 2N3638, BC214, PN3645. (G127) 25 cents ea.
PN3640 Si PNP general purpose transistor. TO-92 plastic case. Replaces 2N3640, but case is different. (G75) C518 15 cents ea.
TL172C Normally off Hall effect switch. (I think!) TO-92 (Style) plastic case. (G87) Look up the data sheet on the Net. 5 cents ea.

8. DIODES

1N4004 power rectifier diode 1A. (200 PIV). Forward surge current $I_{FSM} = 30A$. (G19) 10 cents ea.
1N4148 & 1N4148F fast switching diode; 75V 200mA silicon signal diode. Replaces 1N914A. (G41) 7 cents ea.
1N5819 Power rectifier diode, Schottky (hot carrier) type. Repetitive peak reverse voltage $V_{RRM} = 40V$, forward surge current $I_{FSM} = 25A$. High sensitivity - low voltage drop apx 0.25V. (G90) 60 cents ea.

9. LEDs

3 mm dia. round LED. Available colours: Red & green. (G118) 10 cents ea.
5 mm dia. round LED. Available colours: Yellow & orange. (G119 & G121) 10 cents ea.
5 mm dia. round infra red LED. (G121) 10 cents ea.
5 x 2 mm dia. rectangular red LED. (G120) 10 cents ea. **NEW**
5 x 2 mm dia. rect. green LED. (G120) 10 cents ea. **NEW**
5 x 2 mm dia. rect. yellow LED. (G120) 10 cents ea. **NEW**

10. VOLTAGE REGULATORS

+1.2V to +37V adjustable voltage regulator 100mA, LM317L 3-terminal. Plastic case similar to TO-92. Very useful - saves chasing a range of values. (G75) 90 cents ea.

-1V2 to -37V adjustable voltage regulator 1.5A, LM337T 3-terminal. TO-220 case. Input range 3 to 40V. Saves chasing a range of values. Similar to DSE Z-6058. (G75) \$1.50 ea.

+5V voltage regulator 1A, 7805CT, 7805C & LM340T5. TO-220 case. (G62) \$1.00 ea.

+5V voltage regulator 1A and more. Available: 7805, uA309KC & LM309K. TO-3 metal case. (G63) \$1.50 ea.

+5V voltage regulator 3A, LM323/uA323. TO-3 case. (2006w) (G61) \$4.00 ea.

+5V voltage regulator 5A, uA78H05. TO-3 case. (G63) \$5.00 ea.

+12V voltage regulator 1A and more, 7812K. TO-3 metal case. (G72) \$1.50 ea.

+12V voltage regulator 1.5A, LM340T12 (7812). TO-220 case. (E4300w) (G62) \$1.50 ea.

+15V voltage regulator 1A, uA7815. TO-220 case (G59) \$1.00 ea.

+24V voltage regulator 1A, 7824. TO-220 case. (G60) \$1.00 ea.

-5V voltage regulator 1A, 7905C. TO-220 case. (G60) \$1.00 ea.

-12V voltage regulator 1A, 7912. TO-220 case. (G60) \$1.00 ea.

-15V voltage regulator 1A, 7915K. TO-220 case. (G63) \$1.00 ea.

LM336Z adjustable precision voltage reference. Available: 2.5V & 5.0V. Useful for accurate meter calibration etc. for various voltages using voltage division and related circuits. (G64) 90 cents ea.

11. 7.2 MHz CERAMIC RESONATORS

These are now available from the Club. Bill Currie VK3AWC (sk) obtained a number of CSA 7.2 MT ceramic resonators for our use, so we have some stock. So, until they run out, we will be able to offer these to members at \$1.25 ea. These should be very useful to our home-brewers. (get them while you can!) (G124)

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. (G73) 90 cents ea.

LM308 precision op amp. 8 pin. Replaces uA308. (G58) 90 cents ea.

LM311 voltage comparator. 8 pin. (G59) 50 cents ea.

LM386 audio power amplifier. Output power N-1. 8 pin. (rail) \$1.60 ea.

LM4250 programmable amp. 18 pin. Great for meter amplifiers to increase sensitivity. See Lo- Key #26 Jun '90. (G93) \$3.20 ea.

NE602/NE612/SA602/SA612 double balanced mixer HF oscillator. 8 pin. SA version has better temperature range than NE. (rail) SA612 only \$7.00 ea.

741 general purpose op amp. 8 pin. (rail 60 cents ea.

NE556N & MC3456P equivalent, 556 timer (dual 555). 14 pin. (G59) \$1.00 ea.

13. HEATSINKS

Heatsink, TO-220, medium size. Similar to DSE H-3404 & Jaycar HH-8504. (B3) 60 cents ea.

Heatsink, TO-220, large PCB mount. Size in between DSE H-3490 & H-3495. (G95) \$2.00 ea.

Heatsink, TO-5 & TO-39 snap-on, aluminium for 6 mm nominal dia. (G97) 70 cents ea.

Heatsink, TO-220 and similar snap-on, aluminium. Similar to DSE H-3416. (G95) 70 cents ea.

Heatsink, TO-5 & TO-39 snap-on, thin spring steel Tubular. (G95) 40 cents ea.

Heatsink, TO-5 & TO-39 snap-on, thin spring steel star shape. (G97) 40 cents ea.

Heatsink, flag type snap-on, thin steel, for 6 mm nominal dia. (G98) 20 cents ea.

Heatsink large Miniwatt 40D3CB 60mm x 110 x 77mm (B1) Last 1 in stock @ \$2.50 ea.

Heatsink large Mullard W110 x D59 x H51mm (B3) Last 2 in stock @ \$2.20 ea.

14. HARDWARE

Insulators for TO-3. (G102) 30 cents ea.

Insulators for TO-220 (G125) 30 cents ea.

Spacer (stand-off), hexagonal brass, chrome plated. 4.8 (3/16") across flats x 12 (15/32") & 9 mm long with a through hole threaded for a 4BA bolt or screws. (G26) 10 cents ea.

Screw M3 x 6 mm, pan head, ms. (G26) 3 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. (G80) \$6.00 ea.

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