

Auckland VHF Group Inc.

Branch 66, N.Z.A.R.T.

Trading Table List

January 2022

IMPORTANT NOTE:

AS WE ONLY HAVE LIMITED QUANTITIES OF SOME ITEMS OUR APOLOGIES IN ADVANCE IF WHAT YOU WANT IS NOT AVAILABLE.

**P.O. Box 10-138
Dominion Road
Auckland 1446
New Zealand.**

V.6.5

Contents

| | |
|---------------------------------------------------------------------------------------------------------------------------------|----|
| Contents | 2 |
| When are we open?..... | 3 |
| For more information about the Auckland VHF Group, including how to join, go to the club's website www.aucklandvhf.org | 3 |
| Passive Components | 4 |
| Capacitors, General | 4 |
| Capacitors, Surface Mount | 5 |
| Capacitors, Transmit | 5 |
| Capacitors, Variable | 5 |
| Capacitors, Tantalum | 6 |
| Packed in bags of 10 for 50c/bag. | 6 |
| Capacitors, Electrolytic | 7 |
| Packed in bags of 5 for 50c/bag, larger values are 2 to a bag or sold individually..... | 7 |
| Resistors | 7 |
| Resistors Surface Mount: | 7 |
| Potentiometers | 8 |
| Thermistors & Temperature Sensors..... | 8 |
| Siemens Gas Surge Voltage Protection Tubes..... | 12 |
| Coils, Chokes and Inductors:..... | 8 |
| Ferrites / Toroid Cores:..... | 8 |
| Filters | 9 |
| SAW Filters:..... | 9 |
| 38.90 MHz K2966M 5-pin SIL package [under trading table] \$0.50 each..... | 9 |
| 38.90 MHz K2955 round 4-pin package “ \$0.50 each..... | 9 |
| 38.90 MHz EPCOS K2966M plastic 5-pin SIL package “ \$0.50 each | 9 |
| 38.90 MHz EPCOS K3350K plastic flat package “ \$0.50 each | 9 |
| Quartz Crystals: | 10 |
| Connectors: | 10 |
| Coaxial | 10 |
| Other Connectors:..... | 11 |
| Hardware: | 11 |
| Relays PCB Mount: | 11 |
| Switches:..... | 12 |
| Fuses: | 12 |
| Heatsink: | 12 |
| Miscellaneous | 12 |
| Semiconductors | 13 |
| Diodes:..... | 13 |
| Mixers: | 14 |
| Transistors, General purpose | 15 |
| Transistors, RF..... | 18 |
| MMIC's:..... | 20 |
| ICs, OpAmp..... | 20 |
| ICs, Audio..... | 22 |
| ICs, Microprocessor | 28 |
| ICs, Regulators..... | 29 |
| Kitsets:..... | 29 |

Introduction:

The Auckland VHF Group Inc., Branch 66 of the New Zealand Association of Radio Transmitters (N.Z.A.R.T.) is an amateur radio club and the Trading Table operation exists primarily as a service to members of the club.

The club owns and operates a number of amateur radio repeaters and beacons, all of which require regular maintenance and incur operating costs (power, etc.) The on-going development and upkeep of the repeater and beacon sites and equipment uses profits from the Trading Table operation.

In addition to the components listed in this booklet, the club has a large range of other electronic items, circuit boards, surplus items, cable, etc. which are donated to the club from time-to-time. These are not listed here but may be viewed at any time by visiting the clubrooms on one of our open days, or at any meeting night.

When are we open?

On Meeting Nights: The clubrooms in Hazel Ave, Mt Roskill, are open from 19:30 to about 2200 on the 2nd and last Monday nights in each month. Access can be arranged at other times by contacting the Trading Table Manager: Vaughan Henderson ZL1VH tradingtable@aucklandvhf.org or by phone on (021) 844 804.

The Trading Table can also be found at the Radio Electronics Group Sale, Hamilton Market Day and other selected junk sales throughout the year.

Ordering by Mail: We will do our best to supply the listed components by mail order (via e-mail or snail mail). Remember we are a volunteer operation, and as such your order will be dealt with as quickly as possible but will be dependent on the available time to process mail orders. Please include an additional \$3.50 per order (within New Zealand) to cover postage and packaging. Courier delivery can be arranged at cost. Please contact us for details. Overseas postage will be quoted at time of inquiry.

Mail orders should be addressed to: Trading Table,
Auckland VHF Group Inc.,
P.O. Box 10-138
Dominion Road
Auckland 1446

Or by email to tradingtable@aucklandvhf.org

Prices and Payment Options: Trading Table does not have EFTPOS or Credit Card facilities. Payments by cash, cheque or electronic funds transfer are the only available options. Prices shown are inclusive of GST. The Club is not registered for GST and cannot produce GST invoices. Receipts will be provided if necessary.

We encourage anyone who would purchase from the Trading Table to join the VHF Group and receive SPECTRUM magazine. This will ensure you receive up-to-date parts availability, and new component lists.

For more information about the Auckland VHF Group, including how to join, go to the club's website www.aucklandvhf.org

NOTE: Items highlighted in yellow are available but do not have a bin location allocated.

Passive Components

Capacitors, General

Capacitors, Ceramic Plate

Packed in bags of 10 for 50c/bag.

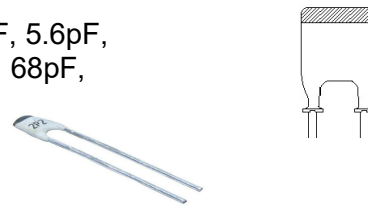
63V/100V working - range of values are:

0.68pF, 0.82pF, 1.0pF, 1.2pF, 1.8pF, 2.2pF, 2.7pF, 3.3pF, 4.7pF, 5.6pF,
6.8pF, 10pF, 12pF, 15pF, 18pF, 22pF, 27pF, 33pF, 47pF, 56pF, 68pF,
120pF, 150pF, 220pF, 270pF, 330pF, 470pF, 560pF, 680pF,
820pF, 1.0nF, 1.5nF, 1.8nF, 2.2nF, 4.7nF.

220pF N750 100V

82pF N1500

1nF 500V



Capacitors, Disk Ceramic

Packed in bags of 10 for 50c/bag.

50V working - range of values are:

except where noted below

2.7pF, 8.2pF, 9.0pF, 10pF, 27pF, 39pF, 47pF, 56pF, 82pF, 120pF, 150pF,
180pF, 220pF, 330pF, 390pF, 470pF, 1.2nF, 2.0nF, 3.3nF,
3.9nF, 4.7nF, 10nF, 22nF, 47nF.

Capacitors, Disk Ceramic, Other

22pF 6kV working 10/\$2.00

220pF 2kV working 10/\$1.00

470pF 5kV working 5/\$2.00

1nF 3kV 5/\$1.00

2.2nF 500V working 10/50c



Capacitors, Monolithic Ceramic

Packed in bags of 10 for 50c/bag.

50V working - range of values are:

1nF, 10nF, 15nF, 47nF, 100nF, 220nF

Capacitors, Ceramic Axial lead

Packed in bags of 10 for 50c/bag.

50V working – range of values are:

1nF, 2.2nF,

Capacitors, Feedthrough

0.003uF "Erie" brand feedthrough

[S.Case]

25c each

800pF axial wire leads

[TBA]

5 for \$1.00

Capacitors, Silver Mica (Lemco)

Packed in bags of 10 for \$1.00/bag.

4.7pF 100V, 12pF 100V, 27pF 100V, 39pF 100V, 470pF 100V

Capacitors, Mylar

15nF 250V

Capacitors, Polystyrene

Packed in bags of 10 for \$2.00/bag.

63pF 50V, 120pF 630V, 390pF 100V, 820pF 630V, 1.2nF 400V, 1.5nF 100V, 1.8nF 100V, 3.3nF +/-
2% 63V

Capacitors, Polyester

Packed in bags of 10 for 50c/bag.

0.1uF 250Vac, 0.22nF 250 Vac, 0.47nF 25Vac, 100nF 63V, 100nF 250V, 220nF 250V, 100nF 400V,
1.8uF 250V

Capacitors, Surface Mount

Most are 1206 size. Packed in bags of 10 for 50c

GOG or NPO 50V working: 0.68pF, 1.8pF, 2.2pF, 5.6pF, 6.8pF, 8.2pF, 10pF, 18pF, 22pF, 33pf, 47pF, 68pF, 82pF, 100pF, 470pF, 560pF, 100nF

50V working: 68nF Z5U, 100nF X7R

63V working: 270pF, 330pF, 470pF, 1nF, 1.2nF, 2.2nF, **3.3nF**, 4.7nF, 10nF

Electrolytic Capacitors SMD (Packed in bags of 10 for 50c):

| | | | |
|------------------------|-------|-------------------------|-------|
| 3.3uF 50V electrolytic | D.2.4 | 10uF 16V electrolytic | D.2.3 |
| 10uF 25V electrolytic | D.2.4 | 22uF 6.3V electrolytic | D.2.4 |
| 33uF 10V electrolytic | D.2.5 | 47uF 16V electrolytic | D.2.5 |
| 47uF 16V electrolytic | D.2.5 | 100uF 6.3V electrolytic | D.2.6 |
| 100uF 16V electrolytic | D.2.6 | 470uF 6.3V electrolytic | D.2.7 |
| 470uF 25V electrolytic | D.2.7 | | |

Capacitors, Transmit

Capacitors, Metal Clad Mica (Unelco, Semco)

Values (in pF):

3.9, 4.7, 6.8, 10, 12,15, 20, 24, 27, 30, 33, 34, 47, 51, 62, 82, 100, 120, 130, 150, 220, 240, 300, 360, 680pF

Most are rated 350V working $\pm 5\%$ tolerance.



Similar to illustration, tab does not have hole:

\$2.20 each

Or 10 up for \$2.00 each



Capacitors, Variable

| | | | | |
|-------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|----------|---------------|
| 0.2-4.5pF | GHW4R5000. Glass piston trimmer (Sprague-Goodman) |  | S.Case | \$4.00 each |
| 0.8 – 8.5pF | Sprague GGC8R500 piston trimmer wire mount | | [C.Case] | \$2.00 each |
| 0.8 – 10pF | Johansen 5201 air variable piston trimmer | | [S.Case] | \$4.00 each |
| 0.8 – 12pF | JFD glass piston trimmer VC20GY ** Used ** | | [C.Case] | \$1.00 each |
| 1 – 10pF | Johansen 2951 air variable piston trimmer | | [S.Case] | \$4.00 each |
| 1 – 10pF | SMD 50V working | | [B.6.2] | \$0.50 for 3 |
| 1.2 -10pF | Sprague GSG007 500V wire base lead | | [C.Case] | \$2.00 each |
| 1 - 14 pF | Murata MVM0145 |  | [S.Case] | \$2.50 each |
| 1.7-11pF | T6-5 125V DCW. Johnson T-type, Q=2000@1MHz | | [S.Case] | \$3.50 each |
| 1.4 – 9.2pF | 189-503 air variable | | [S.Case] | \$2.00 each |
| 1.5 – 6pF | 250V Philips film trimmer grey 7.5mm 2222 808 00004 | | [C.Case] | \$2.00 each** |
| 1.8 – 12pF | Johansen ceramic piston trimmer | | [C.Case] | \$2.00 each |
| 1 – 30pF | JFD Glass piston trimmer NVC32GW | | [C.Case] | \$4.00 each |
| 2 – 9pF | 250V Philips film dielectric high temp 2222 809 09002 | | [C.Case] | \$2.00 each |
| 2 – 10pF | 250V Philips film trimmer yellow 7.5mm 2222 808 00005 | | [C.Case] | \$2.00 each |
| 2 – 12pF | 100V Xircon 242-3810-12 Ceramic 3-pin top adjust | | [C.Case] | 5 for \$1.00 |
| 2 – 18pF | 250V Philips film dielectric high temp. 2222 809 05217 | | [C.Case] | \$3.00 each |
| 2.5 – 23pF | 100V Xircon 242-3810-23 Ceramic 3 leg (blue) | | [TBA] | 5 for \$1.00 |
| 2 – 22pF | 250V Philip film trimmer green 7.5mm 2222 808 00006 | | [C.Case] | \$3.00 each |
| 3 – 10pF | SMD Trimmer Murata TCZ03R100A110T00. | | [C.Case] | 5 for \$1.00 |
| 3.5 – 13pF | Ceramic pcb mount 3 leg marked (four only) | | [S.Case] | \$0.50 each** |
| 3 – 12pF | Ceramic older type pcb vertical mount screw adj. | | [S.Case] | 5 for \$1.00 |
| 3 - 16pF | Ceramic pcb mount. Packed in bags of 10 | | [B.6.3] | 10 for \$1.00 |
| 3 – 18pF | 250V Philips film dielectric high temp. 2222 809 09006 | | [C.Case] | \$1.00 each |
| 4 – 50pF | Mica compression type MTO3 | | [S.Case] | \$1.00 each |

| | | | |
|-----------------------------------------------------|---------------------------------------------------------|----------|---------------|
| 4 - 60pF | Jackson C803 series screw adjust with locking ring | [A.6.7] | \$3.00 each |
| 4.2 – 20pF | Murata TZTZ03R200E169B00 100V | [C.Case] | \$1.00 each** |
| 4.5 – 20pF | Ceramic pcb mount | [C.Case] | \$0.50 each |
| 5 -15pF | 100V film dielectric Packed in bags of 10. | [B.6.1] | \$0.50 bag |
| 5 - 20pF | 100V Murata TZ02R200. Packed in bags of 5. | [C.Case] | \$1.00 bag ** |
| 5 – 40pF | Mica compression type (unmarked old RS part) | [C.Case] | \$1.00 each |
| 5 – 65pF | 250V Philips film dielectric yellow 10mm 2222 808 01001 | [A.6.8] | \$1.00 each |
| 6 – 50pF | Murata TZ03Z500T169 (orange body) | [C.Case] | 5 for \$1.00 |
| 6.8 – 45pF | Murata TZ03P450ER (yellow body) | [C.Case] | 5 for \$1.00 |
| 7 – 40pF | Mica compression type. GMA30200 & ARCO 422 | [C.Case] | \$1.00 each |
| 5 – 70pF | Mica compression type marked 70pF | [S.Case] | \$1.00 each |
| 9.8 – 50pF | Murata TZ03 type brown body, 2-pin top adjust. | [A.6.9] | 5 for \$1.00 |
| 15 – 60pF | Ceramic pcb mount JFD N1500 | [S.Case] | \$1.00 each |
| 16 - 100pF | Mica compression type GMA70300 | [S.Case] | \$1.00 each |
| 25 – 150pF | Mica compression type ARCO 424 175V DC | [A.6.?) | \$0.50 each |
| Alps Japan – 2 gang 14pF to 125pf and 14pf to 325pF | | [B.6.8] | \$5.00 each |
| Alps Japan – 3 gang 7pF to 340pF each gang | | [B.6.8] | \$7.00 each |
| Polar (UK) - 3 gang 14pF to 355pF each gang | | [B.6.8] | \$10.00 each |
| 2-gang | 75 + 160pF Miniature polyvaricon for AM/FM | [B.6.5] | \$1.00 each |
| 2-gang | 280 + 280pF miniature polyvaricon AM | [B.6.7] | \$1.50 each |
| 4-gang | 30pF + 30pF + 95pF + 155pF polyvaricon | [B.6.4] | \$3.00 each |
| 4-gang | 35pF + 35pF + 135pF + 145pF | [B.6.6] | \$3.00 each |

** Very low stock



Capacitors, Tantalum

Packed in bags of 10 for 50c/bag.

Values and working voltage as shown:

0.1 μ F 35V, 0.22 μ F 25V, 0.22 μ F 40V, 0.47 μ F 35V, 1 μ F 40V, 2.2 μ F 16V, 2.2 μ F 35V, 3.3 μ F 16V, 4.7 μ F 16V, 4.7 μ F 35V, 10 μ F 6.3V, 10 μ F 16V, 15 μ F 16V, 22 μ F 16V, 47 μ F 6.3V, 47 μ F 10V

Capacitors, Electrolytic

Packed in bags of 5 for 50c/bag, larger values are 2 to a bag or sold individually.

R = radial, A = axial lead out

10V working: 10 μ FR, 16 μ F, 33 μ FR, 100 μ FR, 220 μ FR, 330 μ FR, 1000 μ FR, 2200 μ FR, 10000 μ FR

16V working: 4.7 μ FR, 10 μ FR, 22 μ FR, 47 μ FR, 100 μ FR, 220 μ FR, 330 μ FA, 470 μ FR, 1000 μ FR, 2200 μ FR

25V working: 4.7 μ FR, 10 μ FR, 22 μ FR, 33 μ FA, 47 μ FA, 47 μ FR, 100 μ FR, 470 μ FA 1000 μ FR

35V working: 10 μ FR, 22 μ FR, 33 μ FR, 220 μ FA, 470 μ FR

40V working: 22 μ FR

50V working: 0.33 μ FR, 0.47 μ FR, 1 μ FR, 2.2 μ FR, 3.3 μ FR, 10 μ FR, 33 μ FR, 3300 μ FR

63V working: 4.7 μ FR, 10 μ FA, 10 μ FR, 22 μ FR 47 μ FR, 470 μ FR

100V working: 2.2 μ FR, 10 μ FR

Capacitor Electrolytic (cont)

150V working: 610 μ F

2200 μ F 35V

Location: D.6.7

\$1.00 bag of 2

4700 μ F 80V

Location: D.6.8

\$1.00 each

Resistors

Resistors radial through hole mount. 0.125W (1/8W) Resistors. Packed in bags of 10 for 20c/bag. Values (in ohms): TBA

0.25 Ohm 5W wire wound.

[G.1.1]

5 for 50c

0.27 Ohm 3W Wire wound vertical pcb mount.

[G.1.2]

5 for 50c

0.5 Ohm 0.5W 10% tolerance.

[G.1.3]

10 for 50c

47 Ohm 0.5W +/-1% tolerance.

[G.1.4]

10 for 50c

50 Ohm 0.4W +/-1% tolerance.

[G.1.5]

10 for \$1.00

100 Ohm 0.5W 5% tolerance.

[G.1.6]

10 for 50c

100 Ohm 2W 5% tolerance. Philips PR02 series. Location:

[G.1.7]

10 for 50c

1000 Ohm 0.5W 1% tolerance.

[G.1.8]

10 for 50c

Resistors, Variable Preset PCB mount:

(all packaged in bags of 5 for 50c)

470 ohm, 1K ohm, 2k2 ohm, 6k8 ohm, 22K ohm, 47K ohm, 50K ohm, 100K ohm, 220K ohm, 470K ohm.

Trimmer Resistor PCB mount: Prices as shown:

10 ohm 1 turn \$0.50 each

2K ohm 10 turn \$0.75 each

100 ohm 1 turn 5 for \$0.50

100K ohm 10 turn \$0.75 each

1K ohm 1 turn \$0.50 each

200K ohm 10 turn \$0.75 each

1K ohm 10 turn \$0.75 each

1M ohm 10 turn \$0.75 each

2K ohm 1 turn \$0.50 each

Resistors Surface Mount:

Packed in bags of 10 for \$0.50 bag

Most are 1206 size: 2.7 ohm, 4.7 ohm, 22 ohm, 49 ohm, 56 ohm, 68 ohm,

82 ohm, 100 ohm, 180 ohm, 270 ohm, 330 ohm, 390 ohm, 470 ohm, 510 ohm,

680ohm, 820 ohm, 1K ohm, 2K2 ohm, 3K3 ohm, 4K7 ohm, 5K6 ohm, 6K8 ohm, 10K ohm, , 12K ohm,

15K ohm, 47K ohm, 68K ohm, 100K ohm, 330K ohm.

Potentiometers

| | |
|-------------------------------------------------------|-------------|
| 10K ohm 0.25" shaft | \$1.00 each |
| 50K ohm 0.25" shaft with switch | \$1.00 each |
| Assorted other values, single and dual at \$1.00 each | |

Thermistors & Temperature Sensors

| | | |
|-----------------------------|---------|----------|
| Thermistor, PTC 70 ohm @20C | [F.3.4] | 50c each |
| Thermistor NTC 22k Ohm 20C | [F.3.4] | 50c each |

Coils, Chokes and Inductors:

| | | |
|----------------------------------------------------------------|----------|--------------------|
| 10mH radial wire leads. | [X/n.n] | 50c bag of five |
| VHF Coil on Former PCB Mount | [E.4.9] | 50c bag of 20 |
| Neosid Coil Former | [E.5.1] | \$1.00 bag of 10 |
| Neosid Screen Can | [E.5.2] | 20c each |
| Neosid Slug Grade F29 | [E.5.3] | \$2.00 bag of 10 |
| Neosid Slug Grade F14 | [E.5.4] | \$1.00 bag of 10 |
| Neosid Slug Grade 900 measures 12 x 6 mm | [E.?.?] | \$1.00 bag of five |
| Ferrite Bead Single hole Grade F14 | [E.5.5] | 50c bag of 10 |
| Ferrite Bead single hole Siemens Grade ? | [E.5.7] | 50c bag of 10 |
| Ferrite Bead single hole F29 grade with wire through (2 turns) | [E.6.1] | \$1.00 bag of 5 |
| Ferrite Bead single hole Philips type FX1115 Grade 3B1 | [E.?.?] | \$1.00 bag of five |
| Ferrite Bead 6-hole Siemens Grade ? | [E.5.8] | \$1.00 bag of 5 |
| Ferrite Bead 6-hole with wire pre-threaded | [E.5.9] | 10c each |
| Ferrite coil former diameter ?? with axial wire leads | [E.5.10] | 50c bag of 10 |
| Ferrite Bead Axial 3.54 x 6 mm Low frequency EMI/RFI (IT000) | [NEW] | 50c bag of 10 |
| Ferrite Rod various sizes | [E.4.8] | \$1.00 each |
| VHF Coil on former pcb mount | [E.6.2] | |
| VHF Coil on former pcb mount | [E.6.3] | |
| VHF Coil air spaced with 4 turns of wire | [E.4.10] | |
| SMD Toroid Transformer with 3 windings. See data sheet. | [F.2.1] | 50c bag of 10 |
| ETAL P1200 600:600 Ohm line matching transformer | [TBA] | \$3.00 each |
| Ferrite EMI Suppression Core Element 14 P/No. 2082485 | [TBA] | \$1.00 each |

Ferrites / Toroid Cores:

| Core Type | Frequency Range MHz | Dimensions D x d x h (mm) | Material | A _L (uH per 100 turns) | Colour | Price (each) |
|----------------|---------------------|---------------------------|----------|-----------------------------------|-------------|--------------|
| 4322-020-97181 | 2 - 30 | 14 x 9 x 5 | 4C6 | 44 | Violet | \$1.00 |
| 4322-020-97121 | ? | 6 x 4 x 2 | ? | ? | Red | \$0.50 |
| 4322-020-97071 | 5 - 15? | 23 x 14 x 7 | 3E2 | 3000±20% | Blue (pale) | \$1.00 |
| T12-6 | 10 - 50 | 3 x 1.5 x 1.2 | 6 | 17 | Yellow | \$0.20 |
| T25-6 | 10 - 50 | 6 x 3 x 2 | 6 | 27 | Yellow | \$0.50 |
| T80-6 | 10 - 50 | 20 x 13 x 6 | 6 | 45 | Yellow | \$1.00 |
| T25-10 | 30 - 100 | 8 x 4 x 3 | 10 | 19 | Black | \$0.75 |
| T37-10 | 30 - 300 | 9 x 5 x 3 | 10 | 25 | Black | \$0.75 |
| T37-3 | 0.05 - 0.5 | 9 x 5 x 3 | 3 | 120 | Grey | \$0.10 |
| T50-10 | 30 - 100 | 13 x 8 x 5 | 10 | 31 | Black | \$1.00 |

Toroid ex Codan

9.64 OD x 4.86 ID x 4.7 mm thick. Ex Codan spare part #264-300-2401. 10 for \$1.00
 No other data available. Black colour (not coated)

SMD Chip Hybrid Balun: The **LDB212G4005C-001** is a surface mount chip balun with 50 ohm unbalance to 50 ohm balanced transformer action. Bandwidth is 2400MHz ± 100MHz and comes in a 2mm long by 1.25mm wide package. Insertion loss is 0.8db @ 25C. Data sheet with pin-outs available. **Location?** 10 for \$1.00

Filters

MFK947CS12A 3 pole ceramic filters
 Interdigital type filter, center frequency 947MHz
 Similar to illustration, surface mount.
 Limited quantity, \$0.50 each



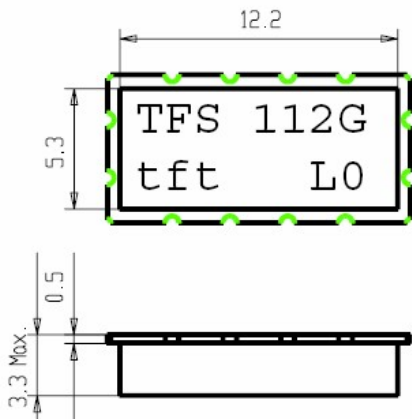
SAW Filters:

| | | | |
|--------------------------------------------------|--------|---|-------------|
| 38.90 MHz K2966M 5-pin SIL package | [under | | trading |
| table] \$0.50 each | | | |
| 38.90 MHz K2955 round 4-pin package | “ | “ | \$0.50 each |
| 38.90 MHz EPCOS K2966M plastic 5-pin SIL package | “ | “ | \$0.50 each |
| 38.90 MHz EPCOS K3350K plastic flat package | “ | “ | \$0.50 each |

Some located at F.4.4 ??

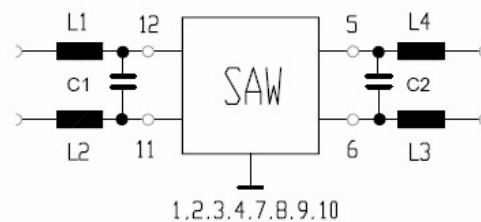
TFS112G SAW Filters

Centre frequency 112.32MHz.
 3dB bandwidth 1.05MHz, 6dB bandwidth 1.72MHz, 20dB bandwidth 2.17MHz
 40dB bandwidth 2.66MHz, Insertion Loss typically 13.5dB.
 SMD 12pin package. Data sheet supplied. [S.CASE] \$0.50 each. Limited quantity.



Balanced

- 1 Not Connected Ground
- 2 Package Ground
- 3 Package Ground
- 4 Not Connected Ground
- 5 Sym.Output
- 6 Sym.Output
- 7 Not Connected Ground
- 8 Package Ground
- 9 Package Ground
- 10 Not Connected Ground
- 11 Sym.Input
- 12 Sym.Input



Crystal Filters:

| | | |
|-----------------|---------|-------------|
| 10.7MHz ±7.5KHz | [F.4.5] | \$5.00 each |
| 10.7MHz ± 50kHz | [F.4.5] | \$5.00 each |

Ceramic Filters:

| | | |
|----------------------------------------------------------------------|---------|-----------------|
| Murata SFE 6.0MHz (SFE6.0MBD) | [F.4.6] | \$1.00 bag of 4 |
| Murata CSA10.0MT 10MHz ceramic resonator | [F.4.7] | \$1.00 for 10 |
| Murata DFC21R57P020BT 1575.5 MHz 20 MHz B/W ceramic bandpass filter. | [F.4.8] | \$0.50 each |

SMD Chip Filter: The **LFB322G45SN1A504** is a surface mount chip filter centre frequency 2450MHz ± 50MHz filter. 50 Ohm impedance. 1.8dB insertion loss. [?.?.?] 10 for \$1.00

PBFS-455P20D3: 455 kHz IF filters in SMD package. 20kHz bandwidth at 6dB points, 6dB insertion loss (max), 1.5k Ohm matching impedance. \$1.00 each.

CFUKG455KG1A-R0: Murata 455kHz ceramic filters. +/-7.5kHz 6dB bandwidth at 6dB points, 6dB insertion loss, 1.5K Ohm

TCXO

16.369 MHz SMD TCXO. Rakon Model IT5305BE P/No. 4432 \$0.50 each

Quartz Crystals:

| | | |
|-------------------------------------------------------------------|---------|-------------|
| 3.579545 MHz HC18/U wire ended holder | [F.4.1] | \$1.00 each |
| 4.194304 MHz HC18/U wire ended holder | [F.4.1] | \$1.00 each |
| 4.1952 MHz HC18/U wire ended holder | [F.4.2] | \$1.00 each |
| 4.33618 MHz HC18/U wire ended holder | | \$1.00 each |
| 6.000 MHz HC49SMD package marked CQ6.0000 | | \$1.00 each |
| 8.192 MHz HC18/U wire ended holder | | \$1.00 each |
| 8.867238 MHz HC18/U wire ended holder | | \$1.00 each |
| 10.0000 MHz HC18/U wire ended holder KDS brand (2 only) | [F.?.?] | \$2.00 each |
| 10.0000 MHz HC49/US 18pF 80 Ohms ±30ppm wire ended | [F.?.?] | \$2.00 each |
| 10.250 MHz HC18/U wire ended holder with temperature compensation | [F.?.?] | \$1.00 each |
| 13.875 MHz HC18/U wire ended holder | [F.4.5] | \$1.00 each |
| 14.31818 MHz HC18/U wire ended holder. Rakon J30G-4H spec | [F.4.6] | \$2.00 each |
| 14.7456 MHz HC49/S SMD package | [F.4.7] | \$1.00 each |
| 16.3690 MHz Rakon IT5305BE TXCO. SMD package. | [F.?.?] | \$0.10 each |
| 17.4720 MHz HC18/U wire ended holder | | \$1.00 each |
| 18.4320 MHz HC18/U wire ended holder | [F.4.8] | \$1.00 each |
| 20.0000 MHz HC49SMD package P/No.7D20000183BSAF25Q3 | [F.4.9] | \$1.00 each |
| 24.5670 MHz HC18/U wire ended holder | | \$1.00 each |
| 24.8000 MHz HC49/S SMD package | [F.4.1] | \$0.50 each |
| 35.3500 MHz HC49/S SMD package | [F.4.1] | \$0.50 each |
| 45.6000 MHz HC18/U wire ended holder | | \$0.50 each |

Connectors:

Coaxial

| | | |
|-------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|
| Coax Adaptors assorted - come and have a look. | [E.1.5] | \$3.00 each |
| PL259 coaxial plugs. These are good quality with brown phenolic insulation. Suit RG8/RG213 50 ohm coaxial cable. Limited qty. | [E.1.6] | \$2.50 each |
| PL259 coaxial plugs. Genuine Amphenol 83-ISA brand. Brown phenolic insulation. Suit RG8/RG213 50 ohm coaxial cable. | [E.1.7] | \$3.50 each |
| PL259 Reducing Adaptors | [E.1.8] | \$0.50 each |
| SO239 to RG58 right-angle adaptor. Antenna mount socket. | [E.1.6] | \$3.00 each |
| BNC plugs 50 ohm for RG58 coax (solder/clamp type) | [E.1.2] | \$2.50 each |
| BNC plugs 50 ohm R/Angle for RG58 coax (solder/clamp type) | [E.T.B.A] | \$2.50 each |
| BNC sockets 50 Ohm solder type single hole chassis mount | [E.1.1] | \$1.50 each |
| BNC socket 50 Ohm crimp and solder type for RG58 coax | [E.1.3] | \$1.50 each |
| BNC sockets 75 ohm – single hole mounting | [E.1.4] | \$1.50 each |
| BNC jack cable end crimp type 50ohm for RG58 coax Radiall R141237161 | [E.2.1] | \$1.50 each |
| BNC 75 ohm connectors/adaptors assorted | [E.2.9] | \$1.00 each |

| | | |
|----------------------------------------------------------|-------------|-------------|
| Mini-UHF Socket crimp-on type for RG58 coax. | [E.3.2] | \$0.50 each |
| N Type male solder on suit RG213 coax | [E.2.2] | \$4.00 each |
| N Type female solder-on suit RG213 coax | [E.2.4] | \$3.00 each |
| N Type female solder-on suit RG58 coax | [E.2.5] | \$3.00 each |
| N Type female crimp on suit RG213 coax | [E.2.3] | \$3.00 each |
| N Type male crimp on suit LMR400 coax | [E.1.10] | \$4.00 each |
| N Type male sliver plated solder/clamp on suit RG58 coax | [E.2.1] | \$3.00 each |
| TNC 50 ohm socket flange mount (limited quantity) | [E.2.10] ** | \$1.00 each |
| TNC Right Angle adaptor Male-Female | [E.1.7] | \$1.00 each |
| TNC male to Mini-UHF female adaptor | [E.1.7] | \$1.00 each |

Other Connectors:

| | | |
|-----------------------------------------------------------------|---------|-------------|
| 2-pin microphone plug/ socket | [E.3.3] | \$1.00 each |
| 3-pin microphone plug/socket | | |
| 4-pin microphone plug/socket | [E.3.4] | \$1.00 each |
| 6-pin and 7-pin microphone plug/socket | | |
| 8-pin microphone plug/socket | [E.3.5] | \$3.00 each |
| 5-pin 180° DIN sockets | [E.3.6] | \$0.50 each |
| 5-pin 270° DIN sockets | [E.3.7] | \$0.50 each |
| 2-Pin Speaker Socket DIN type | [E.3.8] | \$0.20 each |
| Phono Plug 3.5mm | [E.4.2] | \$0.10 each |
| Stereo line socket 3.5mm | [E.4.3] | \$0.20 each |
| Mono phone plug ¼" | [E.4.4] | |
| DIN Plugs assorted | [E.3.7] | \$0.50 each |
| "T" type 2-pin AREC recommended DC power connector plug/skt set | [D.3.8] | \$2.00 set |
| Canon audio (XLR) 5-pin socket | [E.4.1] | \$2.00 each |
| Canon audio (XLR) 4-pin socket | [E.3.9] | \$2.00 each |
| Panel mount DC socket | [E.4.5] | 50c each |
| DC Power Line socket | [E.4.6] | 20c each |
| RCA Plug Red | [D.3.4] | 50c each |
| RCA Plug Black | [D.3.5] | 50c each |
| RCA Plug Yellow | [D.3.6] | 50c each |
| RCA Line Socket various colours | [D.3.7] | 20c each |
| A.C. mains 230V IEC type chassis socket | [E.4.7] | \$0.50 each |

I.C. Sockets:

| | | |
|--------------------|---------|-------------|
| I.C. Socket 8-pin | [F.5.1] | \$0.20 each |
| I.C. Socket 14-pin | [F.5.2] | \$0.20 each |
| I.C. Socket 16-pin | [F.5.3] | \$0.20 each |
| I.C. Socket 18-pin | [F.5.4] | \$0.20 each |
| I.C. Socket 20-pin | [F.5.5] | \$0.20 each |
| I.C. Socket 22-pin | [F.5.6] | \$0.20 each |
| I.C. socket 24-pin | [F.5.7] | \$0.20 each |
| I.C. socket 28-pin | [F.5.8] | \$0.20 each |

Hardware:

Relays PCB Mount:

| | | |
|---------------------------------------------------------|---------|-------------|
| 5V coil, DPDT contacts rated at 1A (Aromat TQ2E-L2-5V) | [B.6.6] | \$1.00 each |
| 5V coil, SPDT Siemens type V23027 | [B.6.4] | \$0.50 each |
| 5V coil, DPDT contacts rated at 2A (NAIS DS2Y-S-DC5V) | [B.6.3] | \$0.50 each |
| 9V coil, SPST contacts rated at 3A (LZ9E) | [B.6.5] | \$0.50 each |
| 12V coil, DPDT contacts rated at 5A (TRIH-12VDC-SB-2CM) | [B.6.5] | \$1.00 each |

| | | |
|-----------------------------------------------------------|----------|-------------|
| 12V coil, DPDT 1A non-latching (EB2-12NU) SMD package | [T.B.A.] | \$2.00 each |
| 12V coil, DPDT 1A 2-coil latching (EB2-12TNU) SMD package | [T.B.A.] | \$2.00 each |
| 24V coil, DPDT Siemens type V23100 | [B.6.1] | \$1.00 each |
| 24V coil, DPST Siemens type V23101 | [B.6.2] | \$1.00 each |

Switches:

Microswitch SPDT 5A 250V A.C. – see illustration. [F.1.3] \$0.50 each



Push-On SPST 1A 120V contacts [F.1.1] \$0.50 each

Push-On SPST 0.5A 60V contacts p.c.b. mounting [F.1.2] \$0.50 each

Slide Switch DPDT 2-hole mounting [F.1.6] \$0.50 for 5

Toggle switch similar to illustration. On-Off-On action [F.1.4] \$2.00 each

Toggle switch 4-pole change-over, centre off [F.1.7] \$3.00 each

Toggle switch (plastic toggle) SPDT 250V 3A [F.1.8] \$2.00 each

Push-On-Push-Off TPDT 230V 5A right angle PCB mounting. [F.1.5] \$1.00 each



Fuses:

2A 1.25" glass cartridge [F.3.6] 10 for \$1.00

50 / 63 / 100 / 250 / 800mA 20mm glass cartridge [F.3.7] 10 for \$1.00

1A / 1.6A / 2A / 3A / 5A 20mm glass cartridge [F.3.?] 10 for \$1.00

6.3A time delay 5x20mm [F.3.?] 10 for \$2.00

Assorted glass cartridge fuses 100mA to 10A [F.3.9] 10 for \$1.00

Fuse wire, various ratings [F.3.9] 50c reel

Heatsink:

Heatsink, various sizes [E.6.6] 50c each

TO-220 Heatsink Thermalloy THM-6071 top hat type with cutout. [G.3.1] 20c each

Miscellaneous

Battery clip for 9V (PP9) type battery [F.2.5] 10 for \$1.00

RJ-12 sockets, 6-way PCB mount [E.6.10] 20c each

TO-3 Mica Washer and insulating bushes [T.B.A.] 50c bag of 20

LED Holder panel mount type [S.7.10] 50c bag of 10

LED Holder panel mount 5mm Kingbright nylon in bags of 50 [TBA] \$3.00 per bag

Test point sockets pcb or chassis mount [F.2.4] 10c each

Brass rivets, ideal for through-hole connections [F.2.6] 50c/100

Cable retainer clips black plastic fits 25mm square boom [F.2.7] 50c each

Plastic standoff mounts for PCB mounting [F.4.8] 10c each

Speakers, small round 8 Ohm and 16 Ohm new loc needed [????] \$1.00 each

Crystal socket PCB mount for HC25/U crystals [F.2.10] 10c each

Crystal socket chassis mount for HC6/U crystals [F.2.9] 10c each

Rubber switch boot (waterproof) 15/32" [F.2.7] 50c each

Lacing Twine black plastic, in 10m rolls. [] \$1.00 each

Ceramic feed-thru insulators, 500V rating, solder in. [] 50c bag of 10

PCB Pins, gold plated. 12.7mm long, 0.44mm diam, in bags of 250 [] \$1.00 bag

Siemens Gas Surge Voltage Protection Tubes

SVP Tube type B13-A230. 230V D.C. minimum strike voltage. [G.1.8] \$1.00 for 10

2-electrode type with wire leads, pre-bent for 10mm hole spacing.

Feed-Through Insulators

Zero capacitance feed-through glass insulation 600V DC [G.1.8] 10 for \$1.00

Zero capacitance ceramic solder in 800V DC [G.1.9] 10 for \$0.50

Semiconductors

Diodes:

Germanium:

| | | | |
|-------|--------------------------|----------|-------------|
| OA90 | Germanium 30V 30mA DO-7 | [S.2.9] | 5/\$1.00 |
| 1N34A | Germanium 60V 40mA DO-7 | [S.2.10] | 10/\$1.00 |
| 1N60 | Germanium 40V 30mA DO-7 | [S.2.8] | 10/\$1.00 |
| 1N91 | Germanium 70V 100mA DO-7 | [S.2.10] | 10/\$1.00 |
| 1N96 | Germanium 70V 20mA DO-7 | [S.2.10] | \$2.00 each |
| 1N417 | Germanium 30V 80mA | [S.3.17] | \$1.00 each |

Microwave Diodes:

| | | | |
|---------|---------------------------------------------------------------|----------|-------------|
| 1N23C | Point contact Ge diode, loose in static bag. Parametric brand | [S.Case] | \$3.50 each |
| 1N23CR | Point contact Ge diode in original sealed mfrs packaging | [TBA] | \$5.50 each |
| 1N415E | Silicon mixer diode 8 to 12.5 GHz applications. | [S.Case] | \$4.50 each |
| MA40075 | Mixer diode 11 GHz. Sealed bag, original mfrs. | [S.Case] | \$3.00 each |

Silicon Switching and General Purpose:

| | | | |
|-----------|------------------------------------------------------|----------|-------------|
| BYD31D | Fast, soft recovery avalanche diode 440mA/4A (peak) | [S.3.2] | 10/50c |
| BYV44-500 | Fast 500V 30A rectifier TO220 package (3 lead) | [] | \$0.20 each |
| CDG23A | BA127 equivalent 60V 0.2A general purpose | [S.3.3] | 20/\$0.50 |
| DS150A | 140V 1.5A general purpose diode | [S.9.5] | 10/50c |
| ERA1501V3 | Panasonic Diode, no information | [S.3.17] | 10/50c |
| MR751 | 100V 6A general purpose diode | [S.3.3] | \$0.50 each |
| MR851 | 100V 3A 200nS fast recovery DO-201 package. | [S.3.4] | \$0.50 each |
| P600M | 1000V 6A | [S.8.6] | \$0.50 each |
| RURP30120 | 1200V 30A ultrafast switching diode. TO-247 package. | [S.8.2] | \$1.00 each |
| V09G | 600V 0.8A fast switching diode | [S.3.7] | 10/\$1.00 |
| 1K188FM | 25V 50mA high speed switching diode | [S.2.10] | 10/50c |
| 1N4001 | 50PIV 1A | [S.2.12] | 10/\$1.00 |
| 1N4002 | 100PIV 1Amp | [S.2.13] | 10/\$1.00 |
| 1N4003 | 600PIV 1A | [S.2.14] | 10/\$1.00 |
| 1N4005 | 800PIV 1A | [S.2.14] | 10/\$1.00 |
| 1N4007 | 1000PIV 1A general purpose | [S.2.15] | 10/\$1.00 |
| 1N4148 | High Speed Switching Diode DO-35 75V 150mA 4pF | [S.2.11] | 10/\$0.50 |
| 1N4148S | SMD package 1N4148 | [S.2.11] | 10/\$1.00 |
| 1N5402 | 200V 3A general purpose | [S.2.15] | 50c/bag |
| 1N5408 | 1000V 3A general purpose | [S.8.6] | 10/\$1.00 |
| 1S1555 | Silicon switching diode. 30V 100mA DO-35 | [S.3.17] | 10/\$1.00 |
| 1S1558 | Silicon 30PIV 120mA high speed switching DO-35 | [S.8.4] | 10/50c |
| 1S2472 | Silicon 55V 120mA 4nS high speed switching diode | [S.3.9] | 10/50c |

Schottky:

| | | | |
|-----------|---------------------------------------------------|----------|--------------|
| 1N60P | Small signal Schottky 45V 50mA DO-35 | [S.6.7] | 5/50c |
| 1N5817 | Schottky 20V 1A axial | [S.2.16] | 10/\$1.00 |
| 1N5819 | Schottky 40V 1A axial (Motorola) | [S.2.14] | 10/\$1.00 |
| B160B-13 | SMD Schottky Diode 60V 1A SMB (3.5 x 4.5) mm | [S.6.7] | 10/\$1.50 |
| HSMS-8101 | Schottky RF/Mixer diode (single) 4V 75mW SOT-23-3 | [S.Case] | 5 for \$1.00 |
| MBR1060 | Schottky 60V 10A TO220 package | [VH] | 50c each |

Other Types:

| | | | |
|--------|-------------------------------------------------|----------|-------------|
| 1S2236 | Silicon varicap diode. 15V 7 to 14pF DO-35 | [S.3.17] | 5/50c |
| 1SV55 | Dual variable cap. diode. 42pF 35V TO92 package | [S.3.17] | \$0.20 each |
| BA379 | PIN Diode SOD-52 30V 50mA RF Atten/switch | [S.2.18] | \$0.20 each |
| BA482 | PIN band switching diode. 35V 200mA DO34 case. | [S.3.1] | \$0.50 each |

| | | | |
|------------|------------------------------------------------------------------|----------|-------------|
| BB 119 | Varicap Diode 17-25pF DO35 radial package | [S.5.14] | \$0.20 each |
| BB 409 | Varicap Diode 5 -30pF DO35 radial package | [S.2.17] | 10/\$2.00 |
| BP 104 | PIN IR Photodiode | [S.3.4] | \$0.20 each |
| MA47600-54 | PIN diode 200V 250mW see data | [S.3.4] | \$1.00 each |
| TPS703 | Photodiode $\lambda > 70\text{nm}$ PIV 20V, 150mW 2-pin package. | [S.3.17] | 50c each |
| UM9401 | PIN Diode 50V | [S.3.4] | 5 / \$1.00 |

Zener Diodes: All 250/400mW unless otherwise noted. Packed in bags of 10 for \$1.00
 2.0V, 3.0V, 3.3V, 3.6V, 3.9V, 4.3V, 4.5V, 4.7V, 5.1V, 5.6V, 6.2V, 6.8V, 8.2V, 9.1V, 9.3V, 10.0V, 11V
 (1W), 12.0V, 15.0V, 18.0V, 18.0V 5W, 20.0V, 22.0V, 24.0V, 27.0V, 30.0V, 33.0V, 36V 5W, 47.0V,
 56.0V.
 100V 2W

Light Emitting Diodes:

| | | |
|-------------------------------------------------------------|----------|-------------|
| 3mm Red high brightness (Kingbright type L-934ID) | [S.7.11] | \$0.10 each |
| 5mm Red 3000MCD Toshiba (clear plastic) | [S.7.12] | \$0.10 each |
| 5mm Green Stanley EBG5504S (clear plastic) high brightness | [S.7.10] | \$0.10 each |
| 3mm and 5mm various colours (limited quantities) | [S.7.10] | \$0.10 each |
| 5mm PCB right angle mount green 50mcd LEDTronics PCL200TG5A | [S.7.10] | \$0.10 each |

Bridge Rectifiers:

| | | |
|-------------------------------------------------------------|----------|--------------|
| B-40 C2000/1500: 100V 1.6A bridge. 4-lead in-line pcb mount | [S.3.7] | 3 for \$1.00 |
| BPC102 200V 0.5A TO92 package | [S.3.9] | 10/50c |
| GBU4B 400V 4A bridge. 4-lead pcb package | [S.3.7] | \$1.00 each |
| GBU4J 400V 4A bridge. 4-lead pcb mount package. | [S.3.7] | \$1.00 each |
| GBU6J 400V 6A bridge. 4-lead pcb mount package. | [S.3.7] | \$1.00 each |
| GBU8J 400V 8A bridge. 4-lead pcb mount package. | [S.3.7] | \$1.00 each |
| KBL402 50V 4A bridge. 4-pin wire leads. | [S.3.7] | 50c each |
| KBP005 50V 1.5A | [S.3.6] | 3 for \$1.00 |
| KBU4B 100V 4A bridge. 4-lead pcb mount package. | [S.3.7] | 50c each |
| PBU405 600V 4A in-line bridge | [S.3.7] | 50c each |
| PBU605 600V 6A in-line bridge | [S.7.10] | \$1.00 each |
| RSL401L 50V 4A bridge. 4-pin wire leads. | [S.3.7] | \$1.00 each |
| W04G 400V 1.5A 4-pin package | [S.3.9] | 50c each |
| W005M 50V 1.5A bridge | [S.3.9] | 5 for \$0.50 |

Mixers:

| | | |
|--------------------------------------------------------------------------------------------------|----------|--------------|
| Mini-Circuits Model SBL-1: 1-500 MHz, 8dB conversion loss, 7dBm L.O drive, | [S.CASE] | \$20.00 each |
| Mini-Circuits Model TFM-2-408-1: 5 – 1000MHz 6dB insertion loss, +17dBm LO drive, 40dB isolation | [S.CASE] | \$25.00 each |

Note: some of these mixers are labelled TFM-2-408-2. They are identical to the TFM-2-408-1.

| | | |
|---------------------------------------------------------------------------------------|--|-------------|
| TDK Model CB303M1: RF Frequency range 1-500 MHz, IF DC to 500 MHz. Insertion Loss 8dB | | \$5.00 each |
| Location: TBA | | |

Transistors, General purpose

| | | | |
|----------------|--------------------------------------------------|-----------------|--------------------|
| 2SA733 | PNP 50V 100mA 250mW TO-92 | [S.5.14] | \$0.20 each |
| 2SA966 | PNP 30V 1.5A 900mW. TO-92MOD | [S.5.14] | \$0.50 each |
| 2SA1015 | PNP 50V 150mA 400mW Low noise AF amp | [S.9.4] | \$0.20 each |
| 2SB511 | PNP 35V 1.5A 1.75W TO-220 | [S.5.14] | \$0.50 each |
| 2SB605 | PNP 60V 700mA 800mW TO92 (Flat) | [S.5.14] | \$0.10 each |
| 2SB817 | PNP 140V 12A 120W TO-3PN. High power AF | [S.9.1] | \$1.00 each |
| 2SC458D | NPN 30V 100mA BC182L equiv. | [S.6.4] | \$0.10 each |
| 2SC535 | NPN 30V 100mA 250mW TO92 | [S.5.14] | \$0.10 each |
| 2SC558 | NPN TO-3 200V 5A 50W AF applications | [S.8.9] | \$1.00 each |
| 2SC639 | NPN TO18 40V 200mA BSX20 equiv. | [S.6.4] | \$0.20 each |
| 2SC732 | NPN TO92 50V 150mA low noise amplifier | [S.6.6] | \$0.20 each |
| 2SC828 | NPN 30V 50mA 500mA TO-92 AF amp. | [S.5.14] | \$0.20 each |
| 2SC876E | NPN TO39 50V 0.5A Audio amp/driver | [S.6.3] | \$1.50 each |
| 2SC1921 | NPN 200V 50mA 600mW TO-92MOD | [S.9.7] | \$0.20 each |
| 2SC2236 | NPN 30V 1.5A 900mW TO-92 MOD AF Amplifier | [S.9.4] | \$0.50 each |
| 2SC2238 | NPN 160V 1.5A 25W TO-220 AF Amplifier | [S.9.4] | \$1.00 each |
| 2SC2324 | NPN TO126 60V 1A low frequency power amp | [S.5.14] | \$0.50 each |
| 2SC2362K | NPN 120V 50mA 400mW TO92 | [S.5.14] | \$0.20 each |
| 2SC2603 | NPN 50V 0,2A TO-92 gen purpose amp | [S.7.6] | \$0.10 each |
| 2SC2634 | NPN TO92B 60V 200mA 400mW | [S.7.6] | \$0.20 each |
| 2SC2668R | NPN 2-4E1A pkge. 40V 20mA low nose amp | [S.7.6] | \$0.20 each |
| 2SC2878B | PNP 50V 300mA 400mW TO92 | [S.5.14] | \$0.20 each |
| 2SC3114 | NPN TO92 50V 150mA AF Amplifier | [S.6.4] | \$0.10 each |
| 2SC5488 | Check | [S.6.4] | |
| 2SD313 | NPN 60V 3A 30W TO220 | [S.5.14] | \$0.50 each |
| 2SD325 | NPN 35V 1.5A 10W 8MHz. | [S.6.6] | \$0.20 each |
| 2SD535 | NPN TO3 150W, 120V 12A | [S.5.13] | \$1.50 each |
| 2SD667AC | NPN TO92 120V 1A Hfe 100-200. Low freq. Pwr.amp | [S.6.5] | \$0.20 each |
| 2SD894 | N-DARL 30V 1.5A 10W 120MHz. | [S.6.6] | \$0.50 each |
| 2SD1266 | NPN 60V 3A 35W SOT-186 | [S.5.14] | \$0.50 each |
| 2SD1302S | NPN 25V 0.5A 0.6W 200MHz TO-92 | [S.6.6] | \$0.50 each |
| 2SD2118 | NPN 5A 50V SC-63 SMD package | [S.] | \$0.50 each |
| 2SJ182L | P-Channel Mosfet. 60V, 3A 20W. D-Pack | [S.5.14] | \$0.50 each |
| 2SJ312 | Power MOSFET P-channel 60V 14A 40W TO-220 | [S.5.14] | \$1.00 each |
| 2SK429L | P-Channel Mosfet 100V 3A 20W. D-Pack | [S.5.14] | \$0.50 each |
| 2N1711 | NPN 50V 800mA TO-39 metal can. AF Amplifier | [S.5.13] | \$0.20 each |
| 2N207 | PNP Germanium 12V 20mA 70mW TO-5 A.F. amp | [S.4.1] | \$0.20 each |
| 2N976 | PNP Germanium 10V 100mA 100mW TO-18 | [S.5.14] | \$0.20 each |
| 2N2045 | Silicon Controlled Rectifier – need data. | [S.9.6] | \$0.10 each |
| 2N2060 | NPN Dual trans. TO-78 60V 500mA AF Amp | [S.9.6] | \$0.20 each |
| 2N2221 | NPN TO18 60V 800mA GP Amp BSW64 equiv. | [S.6.8] | \$0.20 each |
| 2N2222 | NPN 30V 800mA, 500mW TO-18 | [S.5.14] | \$1.00 each |
| 2N2369A | NPN 15V 200mA 1.2W TO-18 metal can | [S.7.5] | \$0.50 each |
| 2N2477 | NPN 20V 200mA 600mW saturated switch TO-5 | [S.5.14] | \$0.20 each |
| 2N2646 | PN Unijunction Transistor. TO-18 | [S.5.14][S.7.5] | \$0.50 each |
| 2N2894 | PNP 12V 200mA 360mW Ft 400MHz TO-18 | [S.5.14] | \$0.50 each |
| 2N2905A | PNP 60V 600mA 600mW TO-39 switching. | [S.7.5] | \$0.50 each |
| 2N2906A | PNP TO18 60V 600mA BSW24 equiv. | [S.6.8] | \$0.50 each |
| 2N2907A | PNP TO-18 60V 600mA small signal switch | [S.6.8] | \$0.50 each |
| 2N2926 | NPN 25V 100mA, 200mW, TO98-1 package | [S.7.5] | \$0.20 each |
| 2N3053 | NPN 40V 700mA 5W TO-39 metal can | [S.6.9] | \$0.50 each |
| 2N3054 | NPN 60V 4A 25W TO-66 metal. AF amplifier | [S.6.9] | \$1.00 each |
| 2N3055 | NPN 60V 15A 115W Power/AF/Switching TO-3 | [S.6.9] | \$2.00 each |
| 2N3251 | PNP 40V 200mA 360mW TO-18 | [S.5.14] | \$0.50 each |

| | | | |
|---------|------------------------------------------------|----------|---------------|
| 2N3261 | NPN TO92 15V 500mA 330mW Ft 600 MHz | [S.7.5] | \$0.20 each |
| 2N3391 | NPN 25V 500mA 625mW Hfe 200-500 TO92 | [S.5.14] | \$0.20 each |
| 2N3644 | PNP 45V 500mA TO92 | [S.5.13] | \$0.10 each |
| 2N3703 | PNP 30V 500mA 625mW TO92 | [S.5.14] | \$0.20 each |
| 2N3705 | NPN 30V 600mA 625mW TO92 | [S.5.14] | \$0.20 each |
| 2N3772 | NPN 80V 20A 150W TO-3 | [S.5.13] | \$1.00 each |
| 2N3773 | NPN 140V 16A 150W TO-3 | [S.5.13] | \$1.00 each |
| 2N3820 | P-JFET 20V 10mA 350mW TO-92 | [S.5.14] | \$0.20 each |
| 2N3901 | NPN TO98. 18V 100mA 200mW | [S.5.14] | \$0.10 each |
| 2N3947 | NPN 40V 200mA 360mW TO-18 General Purpose | [S.7.5] | \$0.20 each |
| 2N3958 | N-FET Dual Trans. 50V 50mA 500mW TO-71 can | [S.7.5] | \$0.50 each |
| 2N4045 | NPN Dual Trans. 45V 10mA 500mW TO-78 Amp. | [S.9.6] | \$0.20 each |
| 2N4062 | PNP 30V 200mA 625mW Hfe 180-800 TO92 | [S.5.14] | \$0.20 each |
| 2N4063 | NPN 350V 1A 10W H-1375 package | [S.7.5] | \$0.50 each |
| 2N4093 | N Chan JFET 40V 10mA 300mW TO-18 | [S.5.14] | \$0.50 each |
| 2N4221 | N-FET 30V 10mA 300mW TO-72 4 pins | [S.5.14] | \$2.00 each |
| 2N4248 | PNP TO106 40V 100mA 300mW gen.purpose | [S.7.9] | \$0.50 for 10 |
| 2N4249 | PNP 60V 100mA 200mW TO92 | [S.5.14] | \$0.10 each |
| 2N4250A | PNP 60V 100mA 200mW TO92 | [S.6.1] | \$0.10 each |
| 2N4391 | N-FET 40V 50mA 1.8W TO-18 metal can | [S.7.5] | \$0.50 each |
| 2N4401 | NPN TO92 40V 600mA General purpose | [S.5.14] | \$0.10 each |
| 2N4403 | PNP TO92 40V 600mA General purpose | [S.5.14] | \$0.10 each |
| 2N4859 | N-Chan JFET 30V 50mA 1.8W TO-18 | [S.5.7] | \$0.50 each |
| 2N4871 | PN Unijunction transistor 30V 50mA 300mW | [S.5.7] | \$0.50 each |
| 2N4898 | PNP 40V 1A 25W TO-66. AF/driver/switch | [S.5.14] | \$0.50 each |
| 2N4916 | PNP 30V 50mA 250mW Ft 400MHz TO-106 | [S.5.14] | \$0.20 each |
| 2N5066 | NPN TO46 20V 100mA 400mW switching | [S.5.14] | \$0.20 each |
| 2N5087 | PNP TO92 Gen.Purp Amp/Switch 625mW | [S.7.6] | \$0.10 each |
| 2N5089 | NPN 30V 50mA 625mW TO92 low noise | [S.5.14] | \$0.20 each |
| 2N5187 | NPN TO5 10V fast switch Ft 600 MHz | [S.5.14] | \$0.20 each |
| 2N5301 | NPN TO-3 40V 30A 200W AF Power | [S.5.13] | \$3.00 each |
| 2N5323 | PNP 50V 2A 10W TO-39 case. Amplifier/switch | [S.5.14] | \$0.50 each |
| 2N5457 | N-Channel J FET. 25V 10mA gen.purp. TO92 | [S.5.14] | \$0.20 each |
| 2N5777 | NPN Light detector, Photo-darlington 45V TO-92 | [S.5.14] | \$0.50 each |
| 2N6027 | Programmable Unijunction Transistor 40V 300mW | [S.9.11] | \$0.50 each |
| 2N6122 | NPN TO220 60V 4A 40W GP amplifier | [S.6.2] | \$0.50 each |
| 2N6292 | NPN TO220 70V 40W GP amplifier | [S.5.14] | \$0.50 each |
| 2N6714 | NPN TO237 40V 2A Medium Power | [S.7.5] | \$0.50 each |
| 2N6726 | PNP TO237 30V 2A Medium Power | [S.7.5] | \$0.50 each |
| 3N163 | P-Channel MOSFET. 40V TO-72 metal can | [S.5.14] | \$0.50 each |
| 40235 | NPN 45V 50mA 180mW Ft 500MHz TO18 | [S.5.7] | 20c each |
| 40250 | NPN 40V 4A 30W TO-66 case. G.P. Amplifier | [S.5.13] | \$1.00 each |
| 40361 | PNP 70V 700mA 5W TO-39 AF Amplifier | [S.6.13] | 20c each |
| 40406 | PNP 50V 700mA 1W TO-5 AF Amplifier | [S.6.13] | 20c each |
| 40631 | NPN 45V 2A 36W TO220 audio amp | [S.6.13] | 20c each |
| 40637 | SCR 100V 6.3A TO203AA | [S.6.12] | 20c each |
| BC107B | NPN 45V 100mA 300mW TO-18 | [S.4.1] | 10c each |
| BC182L | NPN 50V 100mA gen purpose TO92 | [S.5.14] | 10c each |
| BC183L | NPN 30V 100mA 350mW TO92 | [S.5.14] | 10c each |
| BC184L | NPN 30V 100mA Gen purpose TO92 | [S.5.14] | 10c each |
| BC204 | PNP 45V 100mA 200mW TO92 | [S.4.1] | \$0.50 for 10 |
| BC207 | NPN TO18 45V 100mA 300mW s.s. audio. | [S.4.1] | \$0.50 for 10 |
| BC212 | PNP TO92 60V 150mA 300mW driver | [S.4.2] | \$0.50 for 10 |
| BC237A | NPN TO92 45V 100mA 250mW | [S.4.11] | \$0.50 for 10 |

| | | | |
|-------------|---------------------------------------------------|----------|---------------|
| BC238A | NPN TO92 25V 100mA 500mW Ft 300MHz | [S.4.11] | \$0.50 for 10 |
| BC321 | PNP TO92 30V 150mA 300mW | [S.4.2] | \$0.50 for 10 |
| BC327 | PNP 50V General purpose 2N5819 equiv. | [S.4.3] | \$1.00 for 10 |
| BC328-16 | PNP 30V 800mA 625mW TO92 | [S.4.4] | \$1.00 for 10 |
| BC329 | NPN 60V 300mA 500mW TO92 hfe 250 typ. | [S.4.5] | \$1.00 for 10 |
| BC338-25 | NPN 30V 800mA 625mW TO92 hfe 250 typ. | [S.4.6] | \$1.00 for 10 |
| BC546B | NPN 30V 100mA 500mW TO92 Gen. purpose | [S.4.7] | \$1.00 for 10 |
| BC547 | NPN 45V 100mA 500mW TO92 | [S.4.8] | \$0.20 each |
| BC548B | NPN 30V 100mA 500mW TO92 | [S.4.9] | \$1.00 for 10 |
| BC550 | NPN 45V 100mA 500mW TO92 | [S.4.10] | \$1.00 for 10 |
| BC556 | PS 65V 100mA 500mW TO92 | [S.4.11] | \$1.00 for 10 |
| BC557 | NPN 50V 100mA TO92 | [S.4.12] | \$1.00 for 10 |
| BC559B | PS 30V 100mA 500mW TO92 amp/switch | [S.4.13] | \$1.00 for 10 |
| BC635 | NPN 45V 1A 1W TO92 amp/switch | [S.4.14] | \$1.00 for 10 |
| BC637 | NPN med power 60V 1Amp TO92 amplifier | [S.4.15] | \$1.00 for 10 |
| BC807-16 | PNP 45V 500mA 250mW gen purp. SOT-23 SMD | [S.4.16] | \$1.00 for 10 |
| BC817-25R | NPN 45V 800mA 310mW SOT-23 SMD package | [S.4.16] | \$1.00 for 10 |
| BC847B | NPN 45V 100mA 300mW SOT-23 SMD package | [S.4.16] | \$1.00 for 10 |
| BC857 | PNP 45V 100mA general purpose | [S.4.16] | \$1.00 for 10 |
| BC860B | PNP 45V 100mA general purpose. SOT-23 | [S.4.16] | \$1.00 for 10 |
| BC869 | PS 20V 1A 1.35W sot-89 SMD package | [S.4.16] | \$1.00 for 10 |
| BCX73-25 | PS 30V 1A 625mW TO92 | [S.4.17] | \$1.50 for 10 |
| BCY40 | PNP 32V 550mA 350mW TO-5 metal can | [S.4.16] | \$0.20 each |
| BCY70 | PNP Gen.purp. 45V 200mA TO-18 metal case. | [S.4.16] | \$0.20 each |
| BCY87 | NPN Dual Transistor. 40V 30mA 150mW TO-71 | [S.5.14] | \$0.50 each |
| BCZ11 | check on these | [S.5.17] | |
| BD115 | NPN 180V 150mA 6W TO39 | [S.5.13] | \$0.50 each |
| BD131 | NPN TO-126 70V 3A 15W | [S.5.13] | \$0.20 each |
| BD135 | NPN 45V 1.5A audio amp/driver TO-225 package | [S.8.17] | \$0.50 each |
| BD136 | PNP 45V 1.5A audio amp/driver. TO-220 package | [S.8.17] | \$0.50 each |
| BD139 | NPN 80V 1.5A 12W TO-139 package | [S.5.14] | \$0.50 each |
| BD181 | NPN 40V 10A 70W TO-3 Power applications | [S.9.2] | \$0.50 each |
| BD235 | NPN 60v 2A 25W medium power. TO-126 case | [S.4.18] | \$0.50 each |
| BD237 | NPN 2A 80V 25W TO-225 case | [S.4.18] | \$0.50 each |
| BD680 | PNP 80V 4A 40W TO225 Darlington hfe 750 min. | [S.4.19] | \$0.50 each |
| BD956 | PNP 120V 5A 40W TO220 | [S.4.18] | \$0.50 each |
| BDT65C | NPN 120V 12A 125W Darlington TO220 gen purp. amp. | [S.4.18] | \$2.00 each |
| BDX54B | PNP 80V 8A 65W Darlington power TO-220 | [S.4.18] | \$1.00 each |
| BF859 | NPN 300V 100mA high voltage switch TO-202 | [] | \$1.00 each |
| BFW61 | N-Chan JFET 25V 20mA TO39 | [S.5.7] | \$0.50 each |
| BFX37 | PNP 60V 50mA 300mW TO-106 package | [S.5.14] | \$0.10 each |
| BFY18 | NPN 25V 50mA 250mW TO18 | [S.5.14] | \$0.50 each |
| BFY50 | NPN 35V 1A 800mW TO-39 package | [S.Case] | \$0.50 each |
| BFY51 | NPN 30V 1A 800mW TO-39 package | [S.Case] | \$0.50 each |
| BRY39 | Programmable Unijunction (PUT) 70V 175mA TO72 | [S.5.14] | \$0.50 each |
| BS170P | N-Chan D-MOS FET 60V 0.5A gen purpose. | [S.6.16] | \$0.50 each |
| BST70A | N-Chan DMOS 80V 0.5A TO92 switch | [] | \$0.20 each |
| BSX20 | NPN TO18 40V 200mA 360mW HS Switch/HF Amp. | [S.5.1] | \$1.00 each |
| BUK457-500B | Power MOSFET 500V 9A 150W TO-220 | [S.6.14] | \$2.00 each |
| BUS13A | NPN 450V 15A 175W TO-3 | [S.7.5] | \$2.00 each |
| BUT11AF | NPN 450V 5A TO-220 hight speed | [S.7.5] | \$1.00 each |
| BUZ80 | Power FET 75W,4ohm, Vf=1.05V, 800V, 2.6A TO220 | [S.7.1] | \$0.50 each |
| BUZ84A | N Channel Power MOSFET. 800V 5A 125W To3 | [S.8.5] | \$3.00 each |
| BUZ126 | Check part number, no information | [S.7.5] | \$.??? |
| FS10UM-10 | N channel power MOSFET, 500V 10A TO220 | [S.5.2] | \$1.00 each |
| IFR9110 | P channel power MOSFET, 100V 3A, 2.5W SMD | [S.8.8] | \$0.50 each |

| | | | |
|-----------------|--------------------------------------------------|----------|---------------|
| IRF740 | N-MOS, 400V, 10A, 125W | [S.5.4] | \$2.00 each |
| IRF840 | N-MOS, 500V, 8A, 125W | [S.5.5] | \$2.00 each |
| IT130A | Dual PNP Bipolar Transistor, 45V 50mA 2dB noise. | [S.8.10] | \$0.50 each |
| KSD277 | NPN 25V 300mA 400mW TO92 | [S.5.14] | \$0.10 each |
| KTB595 | PNP 100V 5A 40W TO-220 (35) | [S.5.14] | \$0.50 each |
| KTB834Y | PNP 150V 8A 90W TO-220 AF driver | [S.8.3] | \$1.00 each |
| KTD525 | NPN 100V 5A 40W TO-220AB | [S.8.3] | \$1.00 each |
| KTK 30A-Y | N-JFET TO-92 30V 5mA | [S.8.1] | \$0.20 each |
| MA8003 | NPN 60V 800mA 800mW TO-5 AF amplifier | [S.?.?] | \$0.50 each |
| MD7001 | PNP Dual trans 30V 300mA TO-78 Amp/Switch | [S.9.6] | \$0.20 each |
| MD7007 | PNP Dual trans 40V 200mA TO-78 Amplifier | [S.9.6] | \$0.20 each |
| MJ481 | NPN 60V 4A 80W TO-3 Medium power AF | [S.5.13] | \$0.50 each |
| MJ802 | NPN 90V 30A 200W TO-3 AF Amplifier | [S.5.13] | \$3.00 each |
| MJ2955 | PNP 60V 115W TO-3 | [S.5.11] | \$0.50 each |
| MJ3001 | NPN 80V 10A 150W TO-3. Audio, Power applications | [S.5.13] | \$2.00 each |
| MJE3055T | NPN 60V 10A 75W TO-220 | [S.6.9] | \$2.00 each |
| MMUN2115 10w | PNP 50V 100mA pre-biased – see data sheet. SOT23 | [S.5.12] | \$0.50 for |
| MMUN2214 | NPN 50V 100mA pre-biased - see data sheet. SOT23 | [S.5.12] | \$0.50 for 10 |
| MPS2369 | NPN TO92 15V 200mA switching | [S.7.3] | \$0.20 each |
| MPS3640 | PNP TO92 12V 50mA 625mW switch | [S.5.12] | \$0.20 each |
| MPS3683 | PNP TO92 25V 500mA 652mW switch | [S.7.5] | \$0.10 each |
| MPS3866 | NPN 30V 400mA 1.5W Ft>500 MHz. TO92 | [S.5.12] | \$0.50 each |
| MPS5172 | NPN TO92 25V 100mA 625mW General Purpose | [S.5.8] | \$0.50 each |
| MPS5179 | NPN RF Amp 12V 50mA | [S.5.9] | \$0.50 each |
| MPS6507 | NPN TO92 20V 50mA 625mW amplifier | [S.5.10] | \$0.20 each |
| MPS8001 | NPN TO92 25V 100mA 350mW oscillator | [S.5.12] | \$0.20 each |
| MPS9669 | PNP TO92 40V 500mA 450mW driver | [S.5.12] | \$0.50 for 10 |
| MPSA13 | NPN TO92 30V 500mA 625mW Darlington | [S.5.12] | \$0.20 each |
| MPSA14 | NPN TO92 30V 500mA 625mW Darlington | [S.5.12] | \$0.20 each |
| MPS-A77 | PNP TO92 Darlington 60V 1.2A high gain | [S.6.8] | \$0.20 each |
| MPS-A93 | PS TO92 200V 500mA High voltage switch. | [S.5.7] | \$0.20 each |
| MP5L51 | PNP 100V 600mA 625mW TO92 | [S.5.12] | \$0.20 each |
| MUN2115L | PNP Digital Transistor 50V 100mA SOT23 pkge. | [S.?.?] | \$0.50 for 10 |
| NT2222A | NPN 60V 400mA 626mW TO-92 GP Amp/switch | [S.5.11] | \$0.20 each |
| PHD2N60E | N-Channel power MOS. 600V 1.9A 50W SOT-428 pkge. | [S.] | \$0.50 for 10 |
| PMBT3904 | NPN 40V 200mA switching transistor SMD | [S.] | \$0.50 for 10 |
| PMBT3906 | PNP 40V 200mA switching transistor SMD | [S.] | \$0.50 for 10 |
| PN2369A | NPN TO92 15V 200mA switching applications | [S.7.5] | \$0.20 each |
| PN3643 | NPN 30V 500mA 625mA TO-92 | [S.5.14] | \$0.20 each |
| PN4121 | PNP 40V 100mA 625mW gen purpose TO-92 | [S.5.8] | \$0.20 each |
| PN4125 | PNP 40V 100mA 625mW gen purpose | [S.5.8] | \$0.20 each |
| PZT2222A | NPN 40V 600mA 300 MHz switch SOT-223 SMD | [S.5.11] | 10 for \$1.00 |
| SGP15N60 | NPN IGBT 15A 600V fast switch TO-220 | [S.9.3] | \$1.00 each |
| SGP20N60 | NPN IGBT 20A 600V fast switch TO-220 | [S.9.3] | \$1.00 each |
| TIP48 | NPN 300V 1A audio / switching. TO-220 package | [S.7.7] | \$0.50 each |
| TIP122 | NPN 100V 5A TO220 Darlington | [S.7.7] | \$0.50 each |
| VN46AFA | N-Chan Power FET, 80V, , , , TO-202 | [S.?.?] | \$1.00 each |
| VN88AFA | N-Chan Power FET, 80V, 1.2A 12W TO-220 | [S.?.?] | \$1.00 each |

Transistors, RF

| | | | |
|----------|---------------------------------------------------------------------------------------------------------------------------------|----------|-------------|
| ATF55143 | Low noise E-PHEMT 0.6dB noise figure. Low noise amp For frequencies between 450MHz and 6GHz. SMD package SOT343 (4 lead). | [S.Case] | \$1.00 each |
| BF167 | NPN 40V 25mA 500mW Ft = 300MHz TO-72 | [S.5.14] | \$0.50 each |

| | | | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| BF183 | NPN 20V 20mA 500mW Ft=600MHz TO-72 | [S.5.14] | \$0.50 each |
| BF198 | NPN 30V 25mA 500mW Ft = 400MHz TO92 | [S.5.14] | \$0.50 each |
| BF199 | NPN 25V 25mA, 500mW ft = 550MHz TO92 | [S.Case] | \$0.50 each |
| BF200 | NPN 20V 20mA, 150mW, Ft 325 MHz, TO-72 | [S.5.1] | \$0.50 each |
| BF241 | NPN 40V 25mA, 350mW, Ft 450MHz, TO-92 | [S.5.1] | \$0.50 each |
| BF245 | N-Channel JFET 30V 300mW amp to 700 MHz | [S.5.1] | \$1.00 each |
| BF494 | NPN 20V 30mA Low noise mix-osc/ IF amp TO-92 | [S.5.2] | \$0.50 each |
| BFG67 | NPN 8GHz 50mA rf amp/preamp SOT143B package | [S.Case] | \$1.50 each |
| BFR91 | NPN RF Amp. 5GHz 1.9dBf @ 500MHz | [S.Case] | \$2.00 each |
| BFS22A | NPN 4W 175MHz 12V TO39 case | [S.Case] | \$2.00 each |
| BFS23A | NPN 4W 175MHz 28V TO39 case | [S.Case] | \$2.00 each |
| BFR106 | NPN High linearity low noise RF transistor. SOT-23 | [S.Case] | \$0.50 each |
| BFW16A | NPN Wide Band Amplifier. 25V 16dB@200MHz TO-39 | [S.Case] | \$1.00 each |
| BLY33 | NPN RF Pwr. 13.8V 2W 175 MHz TO-39 | [S.7.14] | \$1.00 each |
| BLY83 | NPN RF Pwr. 13.8V 12W 250MHz | [S.7.14] | \$4.00 each |
| ECG320 | NPN RF Pwr. 12.5V 40W 4.6dB stud mount | [S.Case] | \$5.00 each |
| MFE121 | Dual gate N-MOSFET 20V 5mA VHF Amp 40673 equiv. | [S.Case] | \$2.50 each |
| MGF1302 | Low noise GaAs FET Nf = 1.4dB @ 4GHz, 4dB @ 12GHz. | [S.Case] | \$10.00 each |
| MPS5172 | NPN 25V 100mA Ft 120MHz | [S.7.5] | \$0.20 each |
| MPS5179 | NPN TO92 12V 50mA 200mW Ft 2000MHz Nf 5.0dB | [S.7.14] | \$0.50 each |
| | RF Transistor. Use in UHF/VHF amplifiers with collector currents in the 100 μ A to 30 mA range, and in low frequency drift, high output UHF oscillators. | | |
| MPS6507 | NPN, VHF Mixer, 20V, 100mA, Ft 700MHz | [S.5.8] | \$0.20 each |
| MPS6595 | NPN TO92 12V 50mA 350mW hfe 1GHz amp/osc | [S.7.14] | \$0.50 each |
| MRF237 | NPN RF Pwr. VHF 4.0W 12V TO39 | [S.7.14] | \$4.00 each |
| MRF238 | NPN RF Pwr VHF 30W 12V stud mount | [S.7.14] | |
| MRF449A | NPN RF Pwr. 2-30MHz 30W 12.5V stud mount | [S.Case] | \$20.00 each |
| MRF559 | NPN RF Pwr. 806-960MHz 0.5W 12.5V | [S.7.14] | \$1.00 each |
| MRF630 | NPN RF Pwr. 420-521 MHz 4W 13.8V 9dB gain. | [S.Case] | \$4.00 each |
| MRF641 | NPN RF Pwr. 470 MHz 12.5V 15W 7.8dB gain. | [S.Case] | \$20.00 each |
| MRF628 | NPN RF Pwr 400 – 500 MHz 1W 12.5V | [S.Case] | \$2.00 each |
| MRF646 | NPN RF Pwr. 512 MHz 45W 12.5V | [S.Case] | \$30.00 each |
| MRF648 | NPN RF Pwr. 470 MHz 60W 12.5V 4.4dB gain | [S.Case] | \$40.00 each |
| MRF5177A | NPN RF Pwr 400 MHz 30W 28V stud mount | [S.Case] | \$15.00 each |
| PT3537 | NPN RF Pwr 12V 470 MHz 2.5W 4.9dB gain TO117 | [S.7.14] | \$2.00 each |
| PT4531 | NPN RF Pwr 12V 470 MHz 1W 7dB gain TO117 | [S.7.14] | \$1.00 each |
| SD1013 | NPN RF Pwr 150 MHz, 10W 28V stud mount | [S.Case] | \$4.00 each |
| SD1144 | NPN RF Pwr 400 – 550 MHz 2W 12.5V stud mount | [S.Case] | \$3.00 each |
| SD1416 | NPN RF Pwr 175MHz 70W 12.5V flange mount | [S.Case] | \$20.00 each |
| SD1480 | NPN RF Pwr 90 – 175 MHz 125W 28V flange mount | [S.Case] | \$25.00 each |
| SRFH1911 | Motorolla RF power transistor flange mount. No data | [S.Case] | \$offers |
| 2N3375 | NPN RF 3W 400MHz 28V TO-60 stud mount | [S.7.14] | \$1.00 each |
| 2N3632 | NPN RF Pwr 175 MHz 13W 28V TO-60 stud mount | [S.7.14] | \$0.50 each |
| 2N3866A | NPN RF Pwr VHF/UHF 1W 28V 800MHz 10dB TO-39 | [S.7.14] | \$1.00 each |
| 2N5642 | NPN RF Pwr 125 -175 MHz 20W 28V stud mount | [S.Case] | \$5.00 each |
| 2N5643 | NPN RF Pwr 20 – 175 MHz 40W 28V stud mount. | [S.Case] | \$15.00 each |
| 2N5945 | NPN RF Pwr 400 – 700 MHz 2W 12.5V stud mount. | [S.Case] | \$3.00 each |
| 2N5946 | NPN RF Pwr 400 – 550 MHz 10W 12.5V stud mount | [S.Case] | \$4.00 each |
| 2N6080 | NPN RF Pwr 175MHz, 4W, 12dB, 13.5V stud mount | [S.Case] | \$5.00 each |
| 2N6083 | NPN RF Pwr 175MHz, 30W, 13.5V stud mount | [S.7.14] | \$8.00 each |
| 2N6084 | NPN RF Pwr 175 MHz, 40W, 13.5V stud mount | [S.Case] | \$15.00 each |
| 2SC908 | NPN TO39 RF Amp 1W @ 500MHz 13.6V | [S.7.14] | \$1.00 each |
| | Designed as driver and RF power amplifier. 0.5 to 0.8W output at UHF land mobile band. Gain 15dB (Vce=6.0V, Ic=5mA, ft=2000MHz) | | |

| | | | |
|--------------------|------------------------------------------------------------------------------------|---------------------|-------------------------|
| 2SC1729 | NPN RF Pwr 175 MHz 14W 13.5V, flange mount | [S.Case] | \$5.00 each |
| 2SC1946 | NPN RF Pwr 175 MHz, 13.5 V, 28 W, flange mount | [S.Case] | \$10.00 each |
| 2SC5488 | NPN 30V 70mA low noise rf pre-amp | [S.6.4] | \$0.20 each |
| 3N201 | Dual-Gate MOSFET N-Channel 25V 50mA 1.2W TO-72 | [S.Case] | \$4.00 each |
| 3N140 | Dual-gate MOSFET N-Channel 20V 16dB TO-72 | [S.Case] | \$4.00 each |
| 3SK45 | Packaged as ECG221, dual-gate N-channel MOSFET for vhf amp and mixer applications. | [S.6.16] | \$1.00 each |
| 3SK73GR | Dual-Gate MOSFET N-channel 30V 7mA | [S.Case] | \$4.50 each |
| 3SK192GR | Dual-Gate MOSFET 15V 30mA(max) | [S.Case] | \$1.00 each |
| 40250 | NPN 50V Medium Power 117W TO-66 metal package | [S.7.14] | \$0.50 each |
| 40673 | Dual-gate N-Mosfet – See MFE121 | [S.Case] | \$2.50 each |
| 40822 | Dual-gate MOSFET RF, IF Amplifier Mixer to 150 MHz. | [S.Case] | \$1.00 each |
| 40841 | Dual-gate MOSFET RF Amp to 500MHz | [S.Case] | \$2.00 each |
| 40897 | NPN 20V 50mA 300mW Ft800 MHz TO-72 | [S.7.14] | \$2.00 each |
| 40954 | NPN RF Pwr 10W 150 MHz 12.5V Stud Mount | [S.Case] | \$3.00 each |

Triac's and SCR's

| | | | |
|------------|----------------------------------------------------|----------|-------------|
| BT139-600 | Si 600V 6A Triac. Gate trigger 1.5V @ 70mA. TO-220 | [S.9.13] | \$0.50 each |
| BT145-800R | Si 800V 16A SCR. TO-220 package | [S.9.13] | \$1.50 each |
| BT150-500R | Si 500V 4A SCR (35A peak) TO-220 package | [S.9.13] | \$0.50 each |
| T410-600 | Si 600V 4A Triac in TO-220 package | [S.9.13] | \$0.50 each |
| 40669 | Si 400V 8A SCR TO-220 package | [S.9.13] | \$1.00 each |

MMIC's:

| | | | |
|----------|---------------------------------------------------------------------------------------------|----------|-------------|
| MAR-1 | DC-1000 MHz, 15dB gain typ., +1.5dBm output | [S.Case] | \$5.40 each |
| MSA-0686 | DC-800 MHz, 18.5dB gain @500 MHz, 3dB noise. 3.5V operation. 50 Ohm in/out impedance. SOTC4 | [S.Case] | \$3.00 each |

Integrated Circuits

OpAmps

| | | | |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|
| OP27GP | Op-Amp, Low noise, high speed, precision. 8-pin DIP package Location: IC72 | | \$2.50 each |
| TL071ACP | Low noise JFET input Op-Amp. 8-pin DIL plastic package. Location: IC?? | | \$1.50 each |
| JRC4560D | General purpose Op-Amp. ±4V to ±18V operating range. 8-pin DIL Location: TBA | | \$1.50 each |
| LM301AN | General purpose OpAmp in 8-pin plastic DIL package. Location: IC ?? | | \$1.00 each |
| LM208H | Precision Op-Amp in 8-pin round metal package. Location: IC2 | | \$1.00 each |
| LM308AN | Precision Op-Amp in 8-pin plastic DIL package Location: IC2 | | \$1.00 each |
| LM318P | Precision Op-Amp in 8-pin plastic DIL package. Location: IC2 | | \$1.00 each |
| LM324N | Four independent internally frequency compensated op-amps in one 14 pin DIL package. Very low input offset and bias currents compared to the traditional 741. Wide supply range: 3V to 32V. Location: IC1 | | \$2.00 each |
| LM324M/D | As above – 4 independent op-amps on one SMD 14-pin SO8 micro-package. Location: IC1 | | \$2.00 each |

| | | |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| LM339N | Four independent wide supply voltage range precision voltage comparators with an offset voltage of 2 mV maximum for all four. Location: IC?? | \$1.00 each |
| LM348N | Quadruple independent Op-Amps. High gain internally compensated Designed to have operating characteristics similar to the uA741. Location: IC?? | \$2.00 each |
| LM358N | Two independent high gain internally frequency compensated op-amps designed specifically to operate from a single power supply. Output voltage can swing to ground even with single rail supply. Location IC42. | \$1.50 each |
| LM358P | Two independent high gain internally frequency compensated op-amps designed specifically to operate from a single power supply. Output voltage can swing to ground even with single rail supply. Location IC42. | \$1.50 each |
| LF444CN | Quad BIFET Op-Amp, JFET input equivalent to 748 op-amp but only draws 1/4 current. 1MHz GBW, 22V supply rail, 14-pin DIP package Location: IC66 | \$1.50 each |
| NE536T | FET-input Op-Amp +/-22V rail, high impedance input. 8-pin round Metal package. Location: IC39 | \$0.50 each |
| UA741CP | General purpose Op-Amp. +/-15V 8-pin DIL package Location: IC80 | \$0.50 each |
| uA748 | General purpose single op-amp. 8-pin DIL Location: New stock box. | \$0.50 each |
| MC1458P | Dual op-amp general purpose. +/-12V 8-pin plastic package. Location: New stock box | \$0.50 each |
| MC1558G | Dual op-amp +/-18V rail no compensation required. TO-99 8-pin metal Location: S.8.12 | \$0.50 each |
| LM2904 | Dual General Purpose Op-Amp single supply rail to 30V 8-pin DIL Location: | \$0.50 each |
| CA3080 | Operational Transconductance Amplifier. 36V. TO-5 can Location: IC91 | \$0.50 each |
| CA3100E | High open loop gain Op-Amp Ft 36MHz. 8-pin DIL package Location: S.8.14 | \$1.00 each |
| CA3160N | 4MHz, BiMOS Operational Amplifier with MOSFET Input/CMOS Output Location: IC91 | \$2.00 each |
| CA3240E | Dual 4.5MHz BiMOS Op-Amp with MOSFET input, bipolar output Location: IC91 | \$2.00 each |
| CA3401E | Quad Op-Amp. Single supply 5V to 18V. 14-pin plastic DIL package. Location: New stock box | \$1.00 each |
| MC3403 | Low power quad op-amp. 14-pin DIL plastic package. Location: | \$1.00 each |
| LM3900N | Quad Norton Op-Amp. Designed for single supply rail. 14-pin DIP Location: | \$1.00 each |
| LM4520CN | Programmable Op-Amp Location: IC34 | \$2.00 each |
| MC4558CP | Dual wideband operational amplifier. 8-pin DIL package compatible LM358/MC1458. Location: IC42 | \$1.50 each |
| NE5230N | Low voltage op-amp. Will operate from 1.8V to 15V with single supply rail. Vout swing is within 100mV of supply. 8-pin DIL package. Location: IC25 | \$2.00 each |
| JRC 45600 | Dual op-amp high gain (100dB). 8-pin DIL package Location: New stock box | \$1.50 each |
| ICL7613ACP | Low power CMOS Op-Amp Location: | |
| HA17084P | Quad J-FET Op-Amp. 5 to 18V operating range. 14-pin plastic DIL. Location: New stock box. | \$1.00 each |

ICs, Audio

| | | |
|----------|----------------------------------------------------------------------------------------------|-------------|
| BA328 | Dual preamplifier for car audio systems. 18V. SIP-8 pkge. [S.X.X] | \$0.20 each |
| LM382N | Low noise pre-amp. 9-40V supply. 14 pin DIL package [IC5] | \$1.00 each |
| LM380N | 2.5W Audio Power Amplifier. 10-22V. 14-pin DIP package [IC5] | \$1.00 each |
| LM386N | Low voltage audio amp. 125mW 4-12V supply 8-pin DIP [IC5] | \$1.00 each |
| LM388N | 1.5W Audio Amplifier, 4-12V supply. 14 pin DIL package [IC5] | \$1.00 each |
| STK459 | Dual channel 15W audio amplifier. [S.6.10] | \$1.00 each |
| LM377N | Dual 2W audio amplifier. 10-26V operation. 14-pin DIL [New stock] | \$1.00 each |
| TBA810S | 7W audio amplifier in 14-pin DIL package/w. heatsink tabs Location: S.8.12 | \$0.50 each |
| TDA1519A | 2-channel audio power amp 11W 9-lead SIL package. Location: | \$3.00 each |
| TDA2030A | Audio Amplifier 18W 22V max. 5-pin "Pentawatt" package. [New stock] Location: | \$4.00 each |
| STK4131 | IC Dual Channel Audio Power Amp 20W O/P [S.6.11] | \$2.00 each |
| STK4162 | IC Dual Channel Audio Power Amp 2 x 35W [S.6.11] | \$2.00 each |
| LA4507 | 2 Channel audio power amp. 8 watts per channel. 24V operation. 14 pin SIL package. [IC81] | \$2.00 each |
| TA7205P | Audio Power Amplifier, 5.8W, 10-pin SIL package [S.7.2] | \$1.50 each |
| TA7313AP | Audio Output Amplifier 0.5W 4 – 14V 9-pin SIL [S.3.17] | \$0.50 each |

ICs, Analogue function

| | | |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| SD004 | Voltage Detector 4.14V 4uA active. TO92 package Seiko [S.?.?] | \$0.20 each |
| 4N35 | Optocoupler. 5000V isolation. 8-pin DIP plastic package Location: | \$0.50 each |
| MF6CN-50 | 6 th order switched capacitor Butterworth low pass filter. 14 pin DIP package, 5 to 14V supply. Limited quantity. Location: IC68 | \$1.00 each |
| TBA120S | FM IF amplifier and demodulator, 6V to 18V, 14-lead DIL package Location: S.8.6 | \$1.00 each |
| FX205 | Pseudo sinewave generator 30Hz to 5kHz. 8-pin round package CML Microcircuits Location: IC97 | \$2.00 each |
| DG212CJ | Quad SPST Switch. 16-pin DIP [H.1.6] | \$1.00 each |
| MCA255 | Photodarlington Optocoupler. High current transfer (100%) 8-pin DIP Location: ICnn | \$0.50 each |
| IL300-G | Linear Optocoupler. High Gain stability. 8-pin DIL package. Location: ICnn | |
| LM339N | Quad differential comparator. 14-pin DIP plastic. Location: IC58 | \$0.50 each |
| STA341 | NPN/PNP H-Bridge (3 PNP/NPN pairs) 30V 1A 2.2W 8-pin SIL Location: S.3.17 | \$0.50 each |
| LM370N | AGC / Squelch amplifier. 4.5 to 24V supply. 14-pin DIL package. Location: New stock box. | \$0.50 each |
| LM393N | Dual comparator. 8-pin DIP Location: IC54 | \$0.50 each |
| ZN414Z | AM Radio Receiver in TO92 package. 150kHz to 3 MHz 1.5V Location: S. Case Limited quantity. | \$2.00 each |
| FX469J | 1200/2400/4800 FSK Modem. 22-pin plastic DIL. Limited qty. Location: S.8.7 | \$1.00 each |
| TL494CN | Pulse width control circuit. 16-pin DIL plastic package Location: ?? | \$0.50 each |
| TLC542CN | 8-bit, 25k sample rate, ADC with serial output to microprocessor. 12-channel on-chip mux, equiv to MC145041. IC29 | \$1.00 each |

| | | |
|----------|------------------------------------------------------------------------------------------------------------------------------------|--------------|
| NE555N | Timer IC. 8-pin DIL package. Location: IC3 | \$1.50 each |
| NE556N | Dual 555 type timer in 14-pin DIP package Location: IC3 | \$2.00 each |
| NE555DR | 555 Timer in 8-pin SOIC package. Location: IC3 | \$0.50 each |
| ZSM560 | Undervoltage detector for uP systems. Set to 4.6V. TO-92 package. Location: S.9.12 | 5 for \$1.00 |
| LM565CN | Phase Locked Loop VCO max freq. 500kHz. 14 pin DIL package Location: IC62 | \$1.00 each |
| LM566CN | Voltage Controlled Oscillator. Max freq. 1MHz, square & triangle. Location: IC40 | \$1.00 each |
| LM567CN | DTMF Tone Decoder/FSK demodulator/Oscillator 8-pin DIL Location: IC64 | \$1.00 each |
| NE572N | Dual channel analogue compandor. 16-pin plastic DIL package Location: IC47 | \$1.00 each |
| NE592N8 | Differential Video Amplifier. 8 pin DIL package Location: IC41 | \$1.00 each |
| NE646 | Dolby noise reduction I.C. 16-PIN DIL package. Location: IC83 | \$1.00 each |
| uA703HC | General purpose RF/IF amplifier. TO-78 round 8-pin package Location: IC98 | \$2.50 each |
| LA1210 | FM / AM IF I.C. Sanyo. 14-pin DIL. Location: S.9.1 | \$1.00 each |
| TDA1220B | AM/FM Radio Receiver. 16-pin DIL package Location: S.9.7 | \$1.00 each |
| UPC1228H | Dual preamplifier in SIP 8 pin package. Location S.9.7 | \$0.50 each |
| LA1235 | FM Intermediate Frequency IC. 16-pin DIL package Location: S.9.8 | \$1.00 each |
| uPC1237 | Loudspeaker protection IC. 8-pin SIL package Location: S.9.8 | \$1.00 each |
| LA1245 | AM Tuner Sanyo. 20 pin DIL package Location: S.9.8 | \$1.00 each |
| BA1404F | FM Stereo Transmitter 30 – 110 MHz. 18-pin DIP. Location: | \$2.00 each |
| MC1455P1 | IC Timing circuit, direct replacement for NE555. Also works as an oscillator. Location IC3 | \$1.50 each |
| DS1488N | Quad Line Driver TTL to RS232. 14 pin DIL. Location: S.8.13 | \$0.50 each |
| DS1489N | RS232 line driver. 14 pin DIL package Location: IC6 | \$0.50 each |
| MC1489AP | RS232 line driver. 14 Pin DIL package Location: IC6 | \$0.50 each |
| MC1496G | Balanced modulator. 10-pin metal case. See AN531 Motorola Location: TBA | \$2.00 each |
| LM1496N | Balanced modulator. 14-pin DIL package. Location: TBA | \$2.00 each |
| LH1540 | High Voltage MOS Solid-State Relay. Switches 350V AC/DC at up to 130mA. Isolation 3750VAC. 6-pin DIL package. Location: IC73 | \$4.50 each |
| MC1596P | Balanced Modulator/Demodulator. 14 pin DIL package. Location: IC31 | \$2.00 each |
| MC1596G | Balanced Modulator/Demodulator. 10 pin metal can. Location: IC31 | \$5.00 each |

| | | |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| DS1821 | Dallas one-wire temperature sensor. TO92 package. Location: S.7.8 | \$2.00 each |
| Z1955 | Buffered IR Receiver system. With data. | \$1.00 each |
| Z1956 | Infrared Receiving diode with data Location: H.1.5 | \$0.50 each |
| ULN2001A | Seven Darlington Transistor Array. Location: IC62 | \$0.50 each |
| ULN2003 | Array of seven NPN Darlington transistors, 500mA 50V output. Location: IC62 | \$1.00 each |
| ULN2023L | High voltage high current Darlington transistor array.90V 50mA SMD SOIC package. Location: IC62 | \$0.50 each |
| MPIC2113P | High and low side driver. Motorola. Location: IC69 | \$0.50 each |
| XR2207CP | Voltage controlled oscillator. 0.1Hz to 1MHz. 14-pin DIP package. Location: IC84 | \$1.00 each |
| XR2211A | FSK Demodulator / Tone Decoder. 14-pin DIP plastic package. Location: IC84 | \$5.00 each |
| KA2263 | PLL FM Decoder Location: S.9.9 | |
| KA2284 | Voltage level indicator. 5 dot LED level driver. 9-pin SIL package Location: S.9.9 | \$1.00 each |
| KA2287 | 5 dot LED Level Meter driver 9 pin SIL package Location: S.9.9 | \$0.50 each |
| ULN2804A | CMOS transistor Darlington array ULN8204 also at this loc. Location: IC95 | \$0.50 each |
| LM2903N | Dual differential comparator. 8-pin DIP package. Location: | \$0.20 each |
| LM2907 | Frequency to Voltage Converter. 8-pin plastic DIP package. Location: | \$2.00 each |
| UDN2965W-2 | Dual high power stepper motor driver. 20 to 50V out at 4A SIP package. Location: IC?? | \$1.00 each |
| CA3020A | Wide band (to 8MHz) low power amplifier. 400mW out. TO-5 12-lead. Location? | \$1.00 each |
| MCP3021 | Successive approximation A/D converter with 10-bit resolution. 6-pin DIL Location: IC?? | \$2.00 each |
| CA3039 | Diode Array – 6 high speed diodes in round 12 pin package. Location: IC26 | \$0.50 each |
| CA3059 | Zero voltage switch for controlling a thyristor in AC power switching. Location: IC37 | \$0.50 each |
| SAB3036 | Computer interface for digital TV tuning and control. Also controls four general purpose I/O ports and four current outputs for tuner band selection. 18 pin DIL package. Location: IC43 | \$2.00 each |
| MOC3063 | Optocoupler 600V, 5000V isolation. 6-pin DIL Location: ICnn | \$0.50 each |
| CA3086 | General purpose transistor array. 5 NPN transistors. 14-pin DIL package Location: G.1.6 | \$0.50 each |
| LM3089 | Three stage FM IF and Detector with 12 μ V (typ) –3dB limiting sensitivity for FM IF designs in communications receivers. Balanced product detector and audio amplifier provide 400 mV (typ) of recovered audio. Location: IC82 | \$1.50 each |
| CA3094AE | 30MHz High output current operational transconductance amplifier Location: IC60 | \$1.50 each |
| CA3096 | Silicon transistor array NPN and PNP. 16-pin DIL plastic package Location: S.8.16 | \$0.50 each |
| TLE3101 | Triac driver I.C. Mfr. Siemens. 18-pin DIP package. Location IC86 | \$0.50 each |

| | | |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| CA3102N | Dual differential amplifier, low power to 500 MHz. 14-pin DIL package Location: | \$5.00 each |
| CA3141E | 10 diode high voltage array 30V 25mA see data sheet. 16-pin DIL Location: S.8.14 | \$2.00 each |
| CA3146E | 5-transistor high voltage array 40V 50mA driver. 14 pin DIL package Location S.8.15 | \$1.00 each |
| BA3306 | Dual pre-amplifier with ALC 9-pin SIL Location: S.3.17 | \$0.50 each |
| BA3308 | Dual pre-amplifier with ALC 9-pin SIL Location: S.3.17 | \$0.50 each |
| MC3423P | Over voltage crowbar sensing circuit. 8-pin DIL package Location: New stock box | \$1.00 each |
| LM3524DN | Regulating pulse width modulator. 16-pin DIL package Location: | \$3.00 each |
| BA3706 | Mute detector IC Location: S.3.17 | \$0.20 each |
| UC3762N | Isolated drive transmitter for driving IGBT's in switch mode power supplies. 750mA output drive, 8 to 35V operation. 16-pin DIL package. Location: IC22 | \$0.50 each |
| LM3909N | LED driver/flasher. 8-pin plastic DIL package. Location: New stock box | \$0.50 each |
| LM3911N | Temperature Controller IC. 8-pin plastic DIL package. Location: New stock box | \$1.00 each |
| LM3914N | LED Bar-graph driver. 18-pin DIP plastic package. Location: IC?? | \$5.00 each |
| MC4044P | Phase-frequency detector useful in PLL designs. 14-pin DIL package Location: S.8.15 | \$1.00 each |
| CD4046BE | CMOS Micropower Phase-Locked Loop. 16-pin plastic DIL package Location: IC?? | \$2.00 each |
| TDA4050B | Infrared Amplifier Location: IC35 | \$1.00 each |
| TDA4092 | 2 Digit Decoder Driver, 24-pin DIL package. Location: IC71 | \$1.00 each |
| RC4151NB | Voltage to Frequency converter. 8-pin DIL package [new stock] | \$1.50 each |
| TCM5087N | DTMF Tone Encoder. 16-pin DIP package. See data sheet for details. Locationn: IC16 | \$1.00 each |
| TLC5421 | 10-bit A/D Converter FN20 package Location: | |
| TD6104P | Pre-scaler for FM radio. 4-6V 7-pin SIP Location: S.3.17 | \$0.20 each |
| SAB6456A | Pre-scaler for UHF/VHF. Switchable to divide-by-64 or divide-by-256. Input frequency range of 70 MHz to 1 GHz, has high input sensitivity Location: TBA | \$1.00 each |
| LA7315 | MOS AC Motor Control 14-pin DIL package. Limited stock. Location: IC53 | \$1.00 each |
| 7555C | CMOS Timer IC. 8-pin DIL package Location: IC3 | \$1.00 each |
| ICL7673CPA | CMOS battery back-up 2.5 to 15V operating range. 8-pin DIL Location: IC50 | \$0.50 each |
| S8054ALB | Voltage detector range 3.995V to 4.305. TO-92 package. Location: | \$0.20 each |
| ULN8204 | CMOS Input Darlington Array Location: IC95 | \$0.50 each |
| MT8961AE | Integrated filter codec with A-law companding and sign magnitude PCM encoding. 18-pin Location: IC8 | \$2.00 each |
| MC13135 | Dual conversion FM receiver IC. See data for more info. | \$1.50 each |

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|
| | Location: ICnn | |
| MC14LC5436N | DTMF Decoder/filter. 14 pin DIL package. Location: IC16 | \$3.00 each |
| MC13020P | CQUAM AM Stereo decoder. Location: IC94 | \$2.50 each |
| MC14051P | Analogue Multiplexer/Demultiplexer. Effectively a single pole 8-way Electronic switch. 16-pin plastic DIP package. Location: ICnn | \$1.00 each |
| MC34151P | Dual high speed MOSFET driver. 8-pin plastic DIL package Location: New stock box ** limited stock | \$0.50 each |
| M51392P | Wideband video amplifier (50MHz). 16 pin DIL package. Mitsubishi. Limited quantity. Location: IC48 | \$1.00 each |
| M51399P | Mitsubishi Wideband Video Amp (100MHz) 16 pin DIL package. Limited Quantity. Location: IC48 | \$1.00 each |
| M52679P | 6-bit A/D Converter. 16 pin DIL package. Limited quantity. Location: IC48 | \$1.00 each |
| M52681P | 6-bit A/D Converter. 16 pin DIL package. Limited quantity. Location: IC48 | \$1.00 each |
| M52682P | 3-chan 6-bit A/D Converter. 16 PIN DIL package. Limited quantity. Location: IC48 | \$1.00 each |
| MC145407P | RS232 driver/receiver. 20-pin plastic DIL package Location: New Stock Box | \$0.50 each |

ICs, Logic

| | | |
|-----------|---------------------------------------------------------------------------------------------------------------------------|-------------|
| 74HC00 | Quad 2-input NAND gate. 14 pin DIL package. Location: IC21 | \$0.20 each |
| 74HC04 | Hex Inverter 14 pin DIL package. Location: IC54 | \$0.20 each |
| 74HC14 | Hex inverting Schmitt trigger Location: IC78 | \$0.20 each |
| 74HC20 | Dual 4-input NAND gate. 14 pin DIL package. Location: IC67 | \$0.20 each |
| 74HC32 | Quad 2-input OR gate. 10ns propagation delay. Location: IC19 | \$0.20 each |
| 74HC74P | Dual, positive edge triggered D-type Flip Flop, preset clear and complimentary outputs. 14-pin DIL package. Location IC75 | \$0.20 each |
| 74HC86 | Quad 2-input exclusive OR gate. 14 pin DIL package. Location: | \$0.20 each |
| 74HCT86 | Quad 2-input exclusive OR gate. 14 pin DIL package. Location: | \$0.20 each |
| 74HC107N | Dual JK Flip Flop Location: IC33 | \$0.20 each |
| 74HC139N | Dual 2 to 4 line decoder. 16 pin DIL package Location: IC10 | \$0.20 each |
| 74HCT165 | 8-bit serial or parallel-in/serial-out shift register. 14-pin DIL package. Location: IC90 | \$0.20 each |
| 74HC174N | Hex D-Type filp-flop with reset. 16-pin DIL plastic package Location: IC?? | \$0.20 each |
| 74HC221N | Dual monostable multivibrator/Schmit trigger. 14 Pin DIL package Location: | \$0.20 each |
| 74HCT244N | Octal buffer / line driver. Location: IC11 | \$0.50 each |
| 74HC245N | Octal bus transceiver. Limited quantity. Location: IC12 | \$0.50 each |

| | | |
|------------|------------------------------------------------------------------------------------------|-------------|
| 74HCT273P | Octal D-type Flip-Flop with reset' positive edge trigger. 20 pin DIL. Location: IC77 | \$0.50 each |
| 74HC283 | 4-bit binary full adder with carry. 16 pin DIL package Location: IC20 | \$0.50 each |
| 74HC374N | Octal D-type positive edge triggered flip-flop. Limited Qty. Location: IC13 | \$0.50 each |
| 74HC367N | Hex Tri-state bus driver. 16 pin DIL package. Location: IC88 | \$0.50 each |
| 74HC393N | Dual 4-bit binary counter, divide by 8 and divide by 2 Location: IC44 | \$0.50 each |
| CD4001AE | CMOS 2-input NOR gate. 14 pin DIL package. Location: IC45 | \$0.20 each |
| CD4001UBE | CMOS 2-input NOR gate. 14 pin DIL package. Limited Qty. Location: IC45 | \$0.20 each |
| HCF4011UBE | COMS Quad 2-input NAND gate. 14 pin DIL package Location: IC57 | \$0.20 each |
| HEF4012BP | CMOS Dual 4-input NAND Gate. 14 pin-DIL package Limited quantity. Location: IC28 | \$0.20 each |
| HEF4013BP | Dual D-type flip-flop. 14-pin plastic DIL package. Location: ?? | \$0.20 each |
| 74HCF4014 | CMOS 8-bit static register Location: IC38 | \$0.50 each |
| MC14016BCP | CMOS Quad analog switch/multiplexer/demultiplexer. Location: IC32 | \$0.50 each |
| HEF4017BP | CMOS counter/divider, 10 line output Location: IC63 | \$0.50 each |
| HEF4018BP | Presetable divide by N counter. 16-pin plastic DIL package Location: ?? | \$0.50 each |
| HEF4020BP | CMOS 14-stage binary counter. 16-pin plastic DIP package. Location IC23 | \$0.50 each |
| CD4023BE | CMOS Triple 3-input NAND gate. 14-pin plastic DIL package. Location: IC New Stock Box | \$0.50 each |
| SCL4026A | Decade counter and 7 segment driver. 16-pin DIL. Location: New stock box. | \$0.50 each |
| MC14027BCP | CMOS Dual JK Flip-flop. | \$0.50 each |
| MC14040CBP | 12-bit binary counter. 16-pin plastic DIL package Location: IC65 | \$0.50 each |
| HCF4049UBE | CMOS inverting hex buffer. 16-pin DIL. Location: IC24 | \$0.50 each |
| MC14050B | Hex non-inverting buffer Location: IC24 | \$0.50 each |
| MC14543B | BCD-to-7-Segment Latch/Decoder/Driver for LCD display. 16-pin DIP Location: | \$1.00 each |
| 74HC4051N | CMOS Single 8-channel analog multiplexer. 16 pin DIL package Location: IC59 | \$0.50 each |
| CD4051BCN | CMOS Single 8-channel analog mux. 16-pin DIL package Location: IC59 | \$0.50 each |
| MC14052BCP | CMOS dual 4-channel analog mux/demux 16-pin DIL package Location: IC59 | \$0.50 each |
| 74HC4053N | Triple 2-channel multiplexer/demux. 16 pin DIL package Location: IC15 | \$0.50 each |
| CD4052BE | Differential 2-channel 4:1 analogue switch. 16-pin DIL package Location: | \$0.50 each |
| CD4054N | LCD driver 4-segment. 16-pin DIL package. Location: | \$0.20 each |
| 74HC4060P | 14 Stage binary counter/divider oscillator. 16-pin DIL package Location: IC9 | \$0.50 each |

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------|-------------|
| HCF4066BE | Quadruple bilateral switch/multiplexer. 16 PIN DIL package Location: IC93 | \$0.50 each |
| HCF4069UBE | CMOS Hex Inverter 14 pin DIL package Location: IC30 | \$0.50 each |
| MC14027BCP | CMOS Dual JK Flip-flop. Location: | \$0.50 each |
| MC14069BCP | CMOS Hex Inverter. 14-pin DIL package Location: IC30 | \$0.50 each |
| HEF4077BP | CMOS XNOR (Exclusive NOR), Quad, 2 Input gate. 14 Pin DIL Location: | \$0.50 each |
| HD14081 | Quadruple 2-input AND Gate IC Location: S.9.10 | \$0.50 each |
| CD4082BCN | CMOS Dual 4-input AND gate. 14-pin DIL package Location: | \$0.50 each |
| MC14503B | CMOS Hex Non-inverting 3-state buffer. Location: | \$0.50 each |
| MC14516N | CMOS Synchronous up/down binary counter. 14-pin DIL package. Location: | \$0.20 each |
| HD14538 | Dual Precision Retriggerable/Resettable Monostable Multivibrator Location: S.9.10 | \$0.50 each |
| MC14584BCP | CMOS Hex inverter with Schmit trigger. 14-pin DIL package. Location: | \$0.20 each |
| CD40106BCN | CMOS Hex Schmitt Trigger. 14-pin DIL package Location | \$0.20 each |
| HEF4093BP | Quad 2-input NAND Schmitt trigger. 14-pin plastic DIL package Location: S.9.10 | \$0.50 each |
| CD4520BCN | CMOS dual synchronous up counter. 16-pin DIL plastic package. Location: | \$0.50 each |
| HEF4538BP | Dual precision monostable multivibrator. 14 Pin DIL package. Location: IC61 | \$0.50 each |
| CD4541BE | CMOS programmable timer. 20V operation. 14-pin plastic DIL package Location: ?? | \$0.50 each |
| 74AC11074 | Dual positive edge triggered D-type flip flop with clear and preset. 14 pin DIL package. Location IC27 | \$0.50 each |
| MC14584BCP | CMOS Hex Schmitt Trigger. 14-pin DIL package. Location: IC?? | \$0.50 each |
| MC14585B | 4-bit magnitude comparator. Location: IC52 | \$1.00 each |
| HCF40193UBE | Presetable binary up/down counter. 16 Pin DIL package. Location: IC46 | \$0.50 each |

ICs, Microprocessor

| | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PIC16C54B | 8-Bit CMOS Microcontroller. 18 pin SOIC SMD package Location: New Stock Box Limited quantity | \$2.00 each |
| SP237ACS | Multi-channel (5 drivers, 3 receivers) RS-232 line driver/receiver. Operates from single 5V supply, $\pm 9V$ output swing, meets RS232D And V.28 requirements. 24-pin DIL package. Location: IC7 | \$2.00 each |
| MSM5128-15 | 16K RAM (2K*8) chip. Location IC92 Limited quantity. | \$0.50 each |
| MC34164P-5 | Micropower under-voltage sensing circuit. 4.3V threshold. TO226 3-lead package. Location: S.6.15 | \$0.50 each |
| MC68HC705k1 | CDW Motorola Microcontroller Unit. The MC68HC705K1 is a member of the M68HC05 Family of 8-bit microcontroller units (MCU). The M68HC05 Family is based on the customer-specified integrated circuit (CSIC) design strategy and all MCUs in the family use the M68HC05 central processor | |

unit (CPU). On-chip memory of the MC68HC705K1 includes 504 bytes of one-time programmable read-only memory (OTPROM).

Location: IC49 16-pin plastic dual in-line package (PDIP). \$5.00 each

ICs, Voltage Regulators

3-Terminal Voltage Regulators:

| | | | |
|-------------|-----------------------------------------------------------------|----------|-------------|
| 7805 | 5V positive regulator, 1.5A TO220 package | [S.3.11] | \$1.00 each |
| 78L05 | 5V positive regulator, 100mA TO92 package | [S.3.11] | \$0.50 each |
| 78L06 | 6V positive regulator, 100mA TO-92 package | [S.3.11] | \$0.50 each |
| 78L08 | 8V positive regulator, 100mA TO92 package | [S.3.12] | \$0.20 each |
| 7808 | 8V positive regulator, 1A TO220 package | [S.3.12] | \$0.50 each |
| 7812 | 12V positive regulator, 1A TO220 package | [S.3.13] | \$1.00 each |
| LM78L12 | 12V positive regulator, 100mA, SMD SO8 8-pin micro plastic pkg. | | \$0.20 each |
| UPC78L12 | 12V positive regulator, 100mA TO92 package | [S.3.13] | \$0.50 each |
| 7815 | 15V positive regulator, 1A TO220 package | [S.3.14] | \$1.00 each |
| 7824 | 24V positive regulator, 1A TO220 package | [S.3.14] | \$1.00 each |
| LAS15U | 4V to 30V positive regulator, 1.5A TO-3 metal case | [S.3.16] | \$2.00 each |
| LM78L15 | 15V positive regulator, 100mA, TO92 package | [S.3.14] | \$0.50 each |
| LM304H | 0 – 30V 25mA negative voltage regulator. TO-5 8-pin pkg | [S.3.15] | \$0.50 each |
| LM309K | 5V 1.5A fixed output. TO-3 package | [S.3.14] | \$1.00 each |
| LM338T | Voltage regulator 1.2-32V 5A TO220 package ** | [S.3.14] | \$5.00 each |
| TL431C | Precision adjustable shunt regulator 36V TO-92 3-lead. | [S.8.11] | \$0.50 each |
| LM2940T | 5V 1A low drop-out regulator, TO220 package | [S.3.15] | \$2.50 each |
| LM2575T-ADJ | Buck Switching Reg. Positive 1.23V 1A TO-220-5 | [S.3.15] | \$2.00 each |
| LM723CN | Voltage regulator IC. 14-pin DIL package. | | \$1.00 each |

Location: IC4

| | | | |
|---------------|---------------------------------------------------------------|----------|-------------|
| BA178M24FP-E2 | Linear voltage regulator 24V 500mA. 3-pin D-Pack SMD package. | [TBA] | \$0.50 each |
| MC1463R | -3.8 to -35V adjustable voltage regulator. 9-pin metal can. | [TBA] | \$2.00 each |
| CA3085 | 1.8 – 46V positive regulator. TO-5 8-pin package | [S.8.16] | \$0.50 each |

5-Terminal Voltage Regulators:

| | | | |
|--------|-------------------------------------------------------------------|----------|-------------|
| LAS15U | +4V to +30V 1.5A Voltage Regulator in TO-3 metal can with 4 pins. | [S.3.16] | \$3.00 each |
|--------|-------------------------------------------------------------------|----------|-------------|

Switching Regulators:

| | | | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------|
| UA78S40PC | Versatile Switching Regulator, output adjustable from 1.3V to 40V and will directly supply up to 1.5A to drive external transistors for higher currents. 16-pin DIP package. Location: IC76 | | \$2.00 each |
| MC34166T | Power Switching Regulator, TO220 5-pin package. 3A output switch current in DC-DC converter. Location: IC89 | | \$2.50 each |
| LM2575 | Adjustable output step-down switching regulator, 1A. TO220 5-lead package. | [TBA] | |
| TOP204YAI | 3-terminal PWM switching controller (new stock box) | [TBA] | \$1.00 each |

** Limited stock

Kitsets:

VHF/UHF Preamplifier Kit. Parts, pcb and instructions to build a preamp for 2m, 70cm, Now includes instructions for using a SMD package transistor, e.g. the BFG67 in place of the BFR91A supplied with the kit. \$18.00 each