

# FAR CIRCUITS

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FAR CIRCUITS

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Welcome to FAR Circuits! FAR Circuits is exclusively a manufacturer of Printed Circuit Boards for electronic projects that are used by the Amateur Radio and electronic hobby enthusiast. We supply boards in any quantity, but are geared toward low volume and individual circuit board users. We have been in business for over 35 years, and have boards in stock for most of the Ham projects published in QST, QEX, ARRL Handbook, the old Ham Radio, 73's, Amateur Radio Today, CQ, WIFB Designer Notebooks, Popular Electronics, QRPp, QRP Notebook, Communications Quarterly, Electronics Now, and others. FAR Circuits can supply board(s) for projects published in other magazines if the artwork is published in the article. The Printed Circuit Boards supplied are generally on G10 material, drilled and solder coated, and ready to be assembled. We maintain a small inventory of Integrated Circuits for some projects - please check the individual project listing for availability.

In addition to published projects, FAR Circuits offers a prototype service specializing on single-sided, and also non plated-through double-sided boards from Customer supplied artwork. FAR Circuits can also provide custom layout for printed circuit boards when required. We do layout of the foil sided(s), solder mask, and component legends, and documentation. Additionally, we offer a Confidential service for authors writing articles that may require a printed circuit board for their project. Please inquire for rates on custom projects; our Catalog of stocked boards is listed below. FAR Circuits will supply, upon request, a copy of the referenced publication article for \$1.50 each in addition to PC board cost. Please indicate article requests on a separate line on the order form. Orders accepted by surface mail, phone, PAYPAL, or FAX. All orders are to be prepaid by check, money order, VISA or Master Card credit card or PAYPAL. Credit card orders may be faxed or phoned to 847-836-9148. To order please indicate the ship to address, home phone number, quantity of boards, magazine article title, publication, issue date, and any other information that would be helpful in identifying the board. Please use Order Form. FAR Circuits ships all orders via 1<sup>st</sup> class mail unless otherwise noted. All boards are made of G-10, FR-4 material, 1 oz. copper, solder coated, and drilled. Double sided boards DO NOT have plated through holes. Custom boards may be made for \$.50 square inch or \$5.00 minimum per board for single sided, etched, drilled and solder coated. Custom double sided non-plated through holes, etched, drilled and solder coated boards may be made for \$.75 per square inch or \$8.00 minimum per board. A clear film negative is required for custom boards. Film from camera ready artwork is \$10.00 per shot based on 8" x 10" film per shot. Quantity pricing available. Far Circuits reserves the right to change the pricing based on the complexity of the board. FAR Circuits offers layout and prototype services. Please call for these details.

### PRINTED CIRCUIT BOARD SUPPLIES

#### MATERIAL: SINGLE SIDED, FR-4, G-10, 1 oz. COPPER

THICKNESS	6" by 6"	6" by 6" With resist	6" by 12"	6" by 12" *With resist	12" by 12"	12" by 12" *With resist
.012" to .015"	\$2.50	\$4.00	\$4.00	\$5.50	\$7.00	\$8.50
.047"	\$2.50	\$4.00	\$4.00	\$5.50	\$7.00	\$8.50
.062"	\$2.50	\$4.00	\$4.00	\$5.50	\$7.00	\$8.50
.093"	\$3.00	\$4.50	\$4.50	\$6.00	\$8.00	\$9.50

**MATERIAL: DOUBLE SIDED, FR-4, G-10, 1 oz. COPPER**

.005" TO .007"	\$3.00	\$6.00	\$5.00	\$9.00	\$9.00	\$15.00
.015" TO .018"	\$3.00	\$6.00	\$5.00	\$9.00	\$9.00	\$15.00
.031"	\$3.00	\$6.00	\$5.00	\$9.00	\$9.00	\$15.00
.047"	\$3.00	\$6.00	\$5.00	\$9.00	\$9.00	\$15.00
.062	\$3.00	\$6.00	\$5.00	\$9.00	\$9.00	\$15.00
.093	\$4.00	\$6.00	\$6.00	\$10.00	\$10.00	\$16.00

\*Boards laminated with Dupont PM115 photo resist film. Expose with UV through negative film, develop with Sodium Bicarbonate dissolved in water, and strip with liquid drano dissolved in water. Sodium Bicarbonate available to make 1 gallon of developer is \$4.00. You can see the image once exposed before developed, Will resist Ferric Chloride or Ammonium Persulfate etchings.

**PRINTED CIRCUIT BOARD CARBIDE DRILLS, 1/8" SHANK, THESE ARE NEW DRILLS**

.027" TO .062" \$5.00 ea.; .063" TO .125" \$6.00 ea; .128" TO .173"\$9.00 ea.

**PRINTED CIRCUIT BOARD CARBIDE ROUTER BITS, 1/8" SHANK, THESE ARE NEW BITS**

.031", .040", .050", .062", .093" \$9.00 EA. .035", .040", .100", .125" \$10.00

For boards laminated with resist film, Dupont PM115, add \$2.00 per 1 sq. foot, Expose with UV, develop with Sodium Bicarbonate dissolved in water, and strip with Crystal drano dissolved in water. Sodium Bicarbonate available to make 1 gallon of developer is \$4.00. You can see the image once exposed before developed, Will resist Ferric Chloride or Ammonium Persulfate etchings.

**P C BOARDS FOR 2003 ARRL HANDBOOK PROJECTS****2003 2005 ARRL HANDBOOK**

17.28	17.28	SERIES-REGULATED POWER SUPPLY 4.5 TO 25 V, 2.5 A, BY SABIN	\$7.50
1128	17.28	13.8 V 40 A SWITCHING POWER SUPPLY (QST Dec98)	\$20.50
11.36	17.37	28V HIGH CURRENT 10A POWER SUPPLY	\$9.00
12.49		INEXPENSIVE SSTV WITH COMPUTER (SEE QST JAN 94)	\$5.50
13.44		2 METER BRICK AMP USING S-AV7 (25W) OR S-AV1 7 (50W)	\$9.00
17.37		CRYSTAL FILTER EVALUATION BOARD (QEX Mar94)	\$7.00
17.37	14.36	GaAs FET PREAMP FOR 430 MHZ 15 db GAIN, .5NF	\$6.00
17.40	14.39	10GHZ PREAMP, (QEX DEC '92) ON .015" TEFLON.	\$7.00
17.68	14.61	ROCK-BENDING RECEIVERFOR 7MHZ (QST Aug95)	\$7.00
17.71	14.64	WIDEBAND MMIC PREAMP USING MAR-6 (QST Nov97)	\$6.00
14.66	14.72	SUPER REGENERATIVE VHF RECEIVER W/ SQUELCH (QEX Sep/Oct00)	\$10.00
17.78	15.90	NORCAL SIERRA TRANSCEIVER, MAIN BOARD AND FOUR SETS OF BAND PLUG IN BOARDS SET	\$33.00
17.79	14.74	BROADBAND HF AMP, IFR510's 1W IN, 40 W OUT (TWO BOARD SET)	\$19.50
17.98	14.85	SIMPLE REGENERATIVE HF RECEIVER FOR BEGINERS (QST Sep00)	\$6.00
22.22		QUICK AND EASY CW WITH YOUR PC (QST Jan95)	\$7.00
22.23		EXPANDABLE HEADPHONE MIXER	\$4.50
22.28		SIMPLE 10 MINUTE TIMER USING 4017 AND 555	\$4.50
22.29		AUDIO BREAK-OUT BOX (QST Mar95)	\$6.00
22.30		SWR DETECTOR AUDIO ADAPTOR (QST Jul94)	\$4.50
22.33		TANDEM MATCH DIRECTIONAL WATTMETER (QST Jan87&QST Jul93)	<b>DISCONTINUED</b>
22.45		ICOM/TEN-TEC/YAESU RS232 INTERFACE (QST Feb93) BOARD AND 7417 AND MAX232 IC's	\$11.00
22.46		KENWOOD RS232 INTERFACE (QST Feb93) BOARD AND MAX232 AND FOUR OPTO COUPLERS	\$15.50
22.51		TR TIME DELAY GENERATOR	\$7.00
23.70	13.30	ACTIVE ATTENUATOR FOR FOX HUNTING (QST Nov92)	\$4.50
26.16	25.15	MARKER GENERATOR WITH SELECTABLE OUTPUTS	\$4.50
25.25	25.21	MEASURE INDUCYANCE WITH DVM METER BOARD	\$5.50
25.25	25.21	MEASURE CAPACITANCE WITH DVM METER BOARD	\$5.50
27.5	25.26	TWO TRANSISTOR CRYSTAL CONTROLLED SIGNAL SOURCE	\$4.50
	25.17	DIP METER WITH DIGITAL DISPLAY QEX Oct93 TWO BOARD SET	\$18.00

**AUDIO FILTERS & AUDIO PROCESSORS**

Publication	Reference Article	Price
ARRL HB CHP28 FIG.10 (92)	WITH AGC (ALSO CHP28 FIG.15 (88-91)	\$4.50

ARRL HB CHP28	FIG.13 (92) AN EXPANDED HEADPHONE MIXER (ALSO CHP28 FIG.18 (88-91))	
1\$4.50		
ARRL W1FB QRP NOTEBOOK 1991 FIG. 3-2ACTIVE CW FILTER		\$6.00
73's May97	AUDIO MULTIPLEXER FOR FREQUENCY COUNTER MEASURING CTCSS TONES BY KB8XI	\$6.50
73's Nov96	MAGICAL AUDIO FILTER USING MC1458 &MAX295 IC1s BY JIM PEPPER	\$7.00
73's May94	CRIBE HYPER AUDIO FILTER	\$5.50
73's Dec93	DELUXE COMM AUDIO BY CURRY	\$8.50
73's Jul93	UNIVERSAL SPEECH PROCESSOR	\$5.25
73's Feb93	SWITCHED CAPACITOR AUDIO FILTER TONE PROCESSOR	\$5.00
73's Nov92	THE NOISE REMOVER, BASIC NOISE LIMITER	\$3.50
73's Nov92	THE NOISE REMOVER, BASIC NOISE LIMITER, PLUS FILTER	\$4.25
73's Nov92	THE NOISE REMOVER, BASIC NOISE LIMITER, PLUS FILTER & AMP	\$4.50
73's Oct92	NOISE BLANKER (LARGER BD)	\$4.50
73's Oct92	NOISE BLANKER (SMALLER BD)	\$3.50
73's Aug92	DIGITAL ALC	\$9.00
73's Jun91	HW-8 AUDIO AMP	\$3.50
73's Jun91	PSEUDO CW FILTER	\$6.00
73's Dec90	AUDIO POWER TAPE RECORDER CONTROLLER	\$4.50
73's Sep90	SOLUTION AGC CIRCUIT	\$5.50
73's Apr90	BLANKER FOR TS940S	\$4.50
73's Feb90	CONTEST QUALITY HEADSET AND MIC AMPLIFIER	\$4.50
73's Dec89	VOX FOR THs	\$3.00
73's Jul89	4 IN/5 OUT AUDIO MIXER	\$9.50
COMM QRTRLY Winter 97	LOGARITHMIC AUDIO SPEECH PROCESSOR BY W. SABIN (TWO BOARD SET)	\$14.50
CQ Jul97	WIFB QRN 'SQUELCHER' MK-III PROJECT	\$5.50
CQ Nov96	DESK TOP MICROPHONE PREAMP USING 2N7000 FET BY RICH LITTLEFIELD	\$3.50
CQ May96	WIFB 'SQUELCHER' NOISE ELIMINATOR MK-II	\$5.75
HR Apr89	MULTIBAND SPEECH PROCESSOR	\$4.50
NUTS&VOLTS Mar03	ANALOG MIXED AND MATCHED, A 4 INPUT/OUTPUT DISTRIBUTION AMP BY CICCHINELLI, 4 BD SET	\$18.00
NUTS&VOLTS Mar03	NATIONAL SEMICONDUCTOR LM4752 BOARD	\$11.00
NUTS&VOLTS Dec97	SYNTHESIZER INTERFACE BY HENRY (SOURCE CODE AVAILABLE FROM HENRY <a href="http://www.prairie.lakes.com/~map/">http://www.prairie.lakes.com/~map/</a> )	\$13.50
NUTS&VOLTS Jul93	PARABOLIC MICROPHONE AMPLIFIER BY CHARLTON	\$4.50
PE May98	PORTABLE CD DUAL 4 WATT AMP BY DAVIDSON	\$8.50
PE SEPT'74	400 WATT STEREO POWER AMP THE AMPZILLA 2 BD SET	\$33.00
QEX JAN/FEB '08	A SQUELCH AMPLIFIER BY KE5KSC Information at <a href="http://www.arrl.org/qexfiles">www.arrl.org/qexfiles</a> look for 1x08_Laughlin.zip	\$7.50
QEX Sep/Oct01	(Tech Notes) DIGITAL AUDIO AMPLIFIER BY ULBING	\$5.50
QEX Jul85	MORSE CODE SHAPER	\$12.50
QRpp Summer98	SWITCH CAPACITANCE AUDIO FILTER BY JIM PEPPER	\$6.00
QST Jun08	AUDIO INTERFACE FOR FIELD AND CONTESTING BY KOIZ	\$8.50
QST JUN06	LOW COST ACTIVE AUDIO FILTER FOR CW USING LM324	\$5.00
QST Feb05	AUDIO INTELLIGILITY ENHANCER BY N4GG SIZE2.3" BY 3.2"	\$8.50
QST Dec02	EQ5+ MICROPHONE EQUALIZER BY ND2N, 2 BOARD SET	\$13.50
QST Feb02	CW GENERATOR AND DISTRIBUTION STSTEM BY RYNONE	\$8.00
QST Jul02	IMPROVE AUDIO EQUALIZER BY WB9YBM	\$5.50
QST Dec00	NOISE CANCELING WITH ELECTRET CONDENSER MICROPHONES BY SPICES	\$4.50
QST Nov99	PTTSound BY EB3NC	\$7.50
QST May00	IMPROVING THE HAMTRONICS R139 VHF WEATHER- SATELLITE RECEIVER BY KOCSIS	\$4.50
QST Jul98	A VOICE BALANCING AUDIO PEAK CLIPPER BY JOHN BURGER	\$6.00
QST Nov97	SIX CHANNEL DISTRIBUTION AMP BY SUMNER WEISMAN	\$7.00
QST Nov95	AMSAFID, BY MANDELKERN	\$7.00
QST Jun95	CONTINUOUSLY VARIABLE BANDWIDTH AUDIO FILTER USING MAX295 IC'S BY BRAMWELL	\$7.00
QST Mar95	AUDIO BREAK-OUT BOX BY SPENCER	\$7.00
QST Feb95	AGC AUDIO PREAMP BY MILLER	\$4.50
QST Dec94	SPENCER 1 W AF AMPLIFIER	\$4.50
QST Dec91	QUALITY DESK MIKE	\$4.00
QST Aug89	DESK MIKE AUDIO PREAMP BY DEMAW (also ARRL HB'96 PAGE 22.29)	\$4.00
QST Oct83	A TUNABLE CW FILTER	\$6.00
R.CROWLEY	COMCLONE 2 BY CROWLEY	\$9.00
ANALOG DEVICES SSM2165 SPEECH COMPRESSOR KIT, (2) OP113, SSM2165, 78L05, L1, & PC BD, & IC & SM R'S &C'S		\$21.50

**BATTERY CHARGERS, SOLAR CONTROLLERS & ACCESSORIES**

<b>Publication</b>	<b>Reference Article</b>	<b>Price</b>
73's Jan03	KISS CHARGERS BY HOUSEHOLDER; SINGLE CELL BD \$4.50, SIX CELL BD \$8.00	
73's Nov02	AUTOMOTIVE BATTERY VOLTAGE MONITOR BY KC5MFY	\$4.50
73's Mar00	ART HOUSHOLDER , THE CARE AND FEEDING OF NiCds	\$3.50
73's Jun97	NiCd HEALTH MAINTENANCE SYSTEM.(MEASURES, DISCHARGES, AND CHARGES NiCd CELL PACKS, USES THE MAX713 AND LM3914 IC's) (MAX713 IC IS AVAILABLE FOR \$10.00)	\$6.00
73's Jun96	NICAD DISCHARGER BY KITCHENS	\$5.50
73's Jun95	BATTERY MONITOR AND CHARGE CONTROLLER BY KITCHENS	\$7.25
73's May94	TOGASHI FAST CHARGER USING MAXIMUM713 IC (MAX713 IC IS AVAILABLE FOR \$10.00)	\$6.00
73's Nov93	SOLAR CONTROL-AR	\$4.00
73's Jan94	QUAD CHARGER	\$7.50
73's Jun93	PORTABLE PACKET DIGIPEATER	\$9.00
73's Jun93	BATTERY BACKUP CHARGER	\$10.50
73's Jun93	PORTABLE DIGIPEATER BATTERY/SOLAR CONTROLLER	\$9.00
73's May93	BATTERY MONITOR CHARGER ALARM	\$7.50
73's May92	BATTERY WATCHDOG	\$4.50
73's Jun94	BRYCE MRP4 SOLAR PANEL CONTROLLER	\$5.75
73's Aug91	QRP PULSE CHARGER	\$7.75
ARRL HB 88-94 CHP27 FIG 58	AA6PZ POWER CHARGER	\$5.25
ARRL HB 88-94 CHP27 FIG 61	CONTROLLED BATTERY CHARGER (Dec 82 QST)	\$5.75
ARRL HB 92 CHP27 FIG 66	GELLED-CELL BATTERY CHARGER WITH UC3906 IC	\$16.50
CQ VHF Fall02	BATTERY HELPER BY K3YWY	\$5.50
CQ VHF Aug97	25 AMP 12 MOSFET POWER SUPPLY BY K3YWY	\$5.50
HR Mar90	SUPERCHARGER, LARGE BOARD	\$10.75
HR Mar90	SUPERCHARGER, SINGLE CHARGER BOARD	\$2.50
NUTS&VOLTS	Feb96 NICAD BATTERY	\$6.00
QST May01	A LEAD ACID BATTERY CHARGER BY LEWIS	\$13.50
QST Qct98	BATTERY VOLTAGE INDICATOR BY DON VARNER	\$4.50
QST Sep98	HIGH CAPACITY BATTERY SOURCE BY GAGNON, 2 BOARD SET	\$9.00
QST Sep98	HIGH CAPACITY BATTERY SOURCE BY GAGNON - BATTERY INDICATOR BOARD #2 ONLY	\$5.50
QST Dec97	TRIPLE TRICKLE CHARGER BY MEYER	\$4.50
QST JULY97	VOLTAGE BOOSTER BY N4UAU 6v to 12 or 12 to 24 and any where between GOOD GFOR 5 AMPS	\$5.00
QST Aug95	BRYCE BATTERY SENTRY.....DISCONTINUED	XXX
QST Sep94	SMART CHARGER FOR NICAD BATTERIES BY AVRITCH WITH ALL CORRECTIONS AND MAX723 IC	\$4.50
QST Jun94	OVERVOLTAGE PROTECTION AC GENERATORS 2010 HANDBOOK p7.56	\$5.50
QST Mar94	SPENCER LEAD ACID BATTERY CHARGER	\$5.50
QST Nov93	BRYCE LOW VOLTAGE DISCONNECT	\$8.00
QST Oct93	BRYCE SUNSWITCH CONTROLLER	\$8.00
QST Sep93	LONG HAUL BATTERY CHARGER	\$5.50
QST Jan92	FET CHARGER CONTROLLER	\$15.50

**BREAD BOARDS (See website for pictures of Bread Boards)**

<b>QRP MANHATTEN STYLE IC PADS</b> 8 PIN,14 PIN,16 PIN, 18 PIN, 20 PIN AND 28 PIN	4/1.00
<b>QRP MANHATTEN SOIC SURFACE MOUNT IC BREAD BOARDS</b> 8 PIN,14 PIN,16 PIN, 18 PIN, 20 PIN AND 28 PIN	4/1.00
<b>QRP MANHATTEN TSSOP SURFACE MOUNT IC BREAD BOARDS</b> DAUL 8 PIN,14 PIN,16 PIN, 18 PIN, AND 20 PIN	4/1.00
BREAD BOARDS AVAILABLE IN DIP OR SOIC <b>ALLOW \$2.00 SHIPPING PER 4 SETS</b>	
SURFACE MOUNT IC BREADBOARD---FOR 2-52 PIN QUAD PACK IC's (6 7/8" X 3 5/8")	\$10.50
SURFACE MOUNT IC BREADBOARD---FOR 2-44 PIN QUAD PACK IC's (6 3/4" X 3 5/16")	\$10.50
SURFACE MOUNT IC BREADBOARD---FOR 3-28 PIN QUAD PACK IC's (6 5/8" X 2 3/4")	\$10.50
<b>SURFACE MOUNT IC BREADBOARD FOR 1-16 PIN SMIC AND 1-28 PIN SMIC (7 5/8" X 2) 1/4"</b>	\$10.50
SINGLE IC BREADBOARD (APPROX 2" X 4")	\$5.00
TWO IC BREADBOARD (APPROX 2" X 4")	\$5.00
FOUR IC BREADBOARD (APPROX 2" X 4")	\$5.00

EYLETS .055 OD .042 ID FOR DOUBLE SIDED BOARD THRU HOLES \$0.10 EACH OR YOU CAN BUY DIRECT FROM MOUSER

**CODE PRACTICE OSCILLATORS & ACCESSORIES**

<b>Publication</b>	<b>Reference Article</b>	<b>Price</b>
73's May92	QRP SIDE TONE/ CODE OSCILLATOR USING 567, 567 available for \$1.00	\$3.50
FUN RADIO MAG Summer91	EL CHEAPO CODE PRACTICE OSC	\$3.50

HR Sep88	PROCESSOR FOR CODE TAPES	\$7.00	
NOW YOUR TALKING	CODE PRACTICE OSCILLATOR		\$6.00
QST Feb02	CW GENERATOR AND AUDIO DISTRIBUTION SYSTEM BY RYNONE		\$8.00

### CONVERTERS & TRANSVERTERS

Publication	Reference Article		Price
73's Apr95	SHORTWAVE CONVERTER FOR YOUR SCANNER BY DONNELL		\$4.50
73's Jul93	9 TO 10 CONVERTER BY N1II		\$4.50
73's Apr92	SAM1 1750 METER TO 80 METER TRANSVERTER		\$12.00
73's Mar92	ATV DOWN CONVERTER		\$9.00
73's Feb91	RADAR DET. TO MICROWAVE RECEIVER CONVERSION		\$7.00
73's Jun90	TUNE IN NEW FRONTIER OF VHF		\$4.50
.5073's Feb90	NR5A 17M REC CONVERTER		\$4.50
73's Jun86	2 TO 10 TRANSCEIVER		\$16.50
AMSAT JOURNAL May/Jun03	1269MHZ TRANSMIT CONVERTER BY VE2ZAZ (MINI KIT)		\$39.00
ARRL HANDBOOK CHP30 FIG.26&27	160 METER LINEAR QSK TRANSVERTER (2BD SET)	\$15.50	
ARRL HANDBOOK CHP31 FIG.383	WATT TRANSMITTING CONVERTER FOR 6 METERS	\$9.50	
ARRL W1FB QRP NOTEBOOK 1991	DIODE SWITCH TWO BAND CONVERTER (FIG 3-35)	\$8.25	
COMM QUARTERLY Spring91	HIGH PERFORMANCE 1296 MHZ CONVERTER	\$10.50	
HR Oct85	ADD GENERAL COVERAGE TO YAESUS' VHF-UHF REC	\$9.00	
QEX Jul93	(Also CHP7-88 IN 95 HB) NO TUNE 220 TRAMSVERTER	\$21.50	
QEX Mar/Apr 00	A SYNTHESIZED DOWN CONVERTER FOR 1691 MHZ WEFAX BY WA9PYH	\$9.00	
QEX Aug88	A UHF/VHF MICROWAVE TRANSVERTER IF SW	\$6.00	
QST Oct03	DIGITAL RADIO MONDIALE BY WB8IMY (PC BOARD+NE602+78L05)	\$9.00	
QST Apr02	AMRAD LOW FREQ UPCONVERTER BY GENTGES & RADZLAFF (3 BOARD SET)	\$13.50	
QST Jan97	SIMPLE 6 AND 2 METER CONVERTER BY KREUTER	\$6.50	
QST Oct96	440 MHZ DOWN CONVERTER TV CH 3 OR 4 BY K2MQJ AND KA2CWL	\$8.50	
QST Mar89	SIMPLE 80 METER CONVERTER	\$5.50	
QST Feb89	TRANSISTOR AM RADIOS AS HAM RECEIVERS (2 BD SET)	\$4.50	
QST Apr85	CONVERTER FOR 24 MHZ WARC BAND	\$9.00	
	THE SUFFOLK 144 MHZ TRANSVERTER (2 BOARD SET) TRANSCEIVER AND QRP LINEAR AMP BDS	\$20.50	

### DIRECTION FINDING PROJECTS

Publication	Reference Article		Price
73's Nov00	SUPER SIMPLE 80M ATX-80 TRANSMITTER BY JOE MOELL		\$4.50
73's Nov00	BUILD AN 80 METER FOX-FINDER RECEIVER BY JERRY BOYD		\$6.00
73's Nov98	BUILD THE FOX TTL FOXHUNT TRANSMITTER BY DAVE PELAEZ		\$5.25
73's May98	MONTREAL FOX CONTROLLER FROM HOMING-IN COLUMN BY MOELL		\$4.50
73's Jul90	FOXHUNT RADIO DIRECTION FINDER BY PAUL BOHRER		\$8.00
ARRL HB CHP 25 FIG 72	8 SWITCH ATTENUATOR BOX		\$9.00
CQ Jun02	NOGSG PORTABLE RADIO DIRECTION FINDER PC BOARD		\$7.00
CQ VHF Sep96	SHERLOCK TRANSMITTER SIGNATURE ID-ER BY MALLETT		\$7.50
PE Jan95	THREE STAGE ELECTRONIC STEP ATTENUATOR BY K.CORNELL		\$7.50
QST Sept'05	SIMPLE DIRECTION-FINDING RECEIVER FOR 80 METERS BY WB6BYU DALE HUNT		\$7.00
QST Mar 05	UHF FOX TRANSMITTER W/ RECORDABLE VOICE MESSAGE.using ISD1420 & TS433 MODULE		\$6.00
QST Nov02	NOGSG DSP RADIO DIRECTION FINDER, 3 BOARD SET		\$19.50
QST Nov95	FOUR WAY DFer BY MALLETT		\$12.50
QST May93	BUILD THE HANDI-FINDER		\$8.00
QST Nov92	ACTIVE ATTENUATOR FOR TRANSMITTER HUNTING		\$4.00
	TRANSMITTER HUNTING BY MOELL ROANOKE DOPPLER DF (MAIN BD, 16 LED DISPLAY BD, ANT SW BD)		\$19.50
	TRANSMITTER HUNTING BY MOELL RF OFFSET ATTENUATOR		\$4.50
	HOMING IN DOPPLER TO RS232 ADAPTOR MOELL DF PROJECT "TRANSMITTER HUNTING"		\$6.50
	<b>V3.2 MONTREAL DOPPLER</b> , MAIN, 32 LED, AND ANT SW BOARDS, AND 3 PROGRAMMED PIC'S (bds only \$19.00 set)		\$45.00
	32 LED DOPPLER DIRECTION FINDER WITH PROGRAMMED PIC PROCESSOR		\$38.00
	MONTREAL FOX CONTROLLER TRANSMITTER BY VE2EMM VE2EMM, 2 METER ARDF FOX TX FOR ZONE 2		\$7.00
	MONTREAL FOX CONTROLLER FOR INTERNATIONAL HUNTS ON 80M AMD 2M		\$4.50
	MONTREAL FOX CONTROLLER MtlCtrl3		\$4.50
	TINY TRACK BY B GARRABRANT		\$4.50

### DTMF ENCODERS, DECODERS & CONTROLLERS

Publication	Reference Article		Price
73's Jul95	DTMF DECODER TO COMPUTER USING CD22204 IC'S BY TAYLOR		\$5.25

73's Jun95	TONE BURST ENCODER AND DECODER BY WB9YBM (2 BD SET)	\$7.00
73's Dec94	DTMF COMPUTER INTERFACE ENCODER	\$5.50
73's May93	QRP COLUMN QRP CONTROLLER	\$10.00
73's Jan92	ATV TOUCH TONE DECODER (USES SSI202 IC)	\$10.50
73's Jun92	TOUCH-TONE SQUELCH DTMF DECODER USING MT8870 IC WITH BCD OUTPUT	\$9.00
73's Dec84	TOUCH TONE DECODER	\$13.50
ARRL HB CHP25 FIG.51 (88-91)	A B TWO TONE GENERATOR (AND CHP25 FIG.39 (> 93))	\$6.50
ARRL HB CHP34 FIG 7	DTMF DECODER USING SSI202 IC WITH BCD & DECADE OUTPUT FOR LEDS	\$6.50
PE Sep95	DTMF DECODER/LOGGER USING PC16C55 BY T.WEEDER	\$8.50
POPULAR ELECTRONICS Jul97	DTMF WIRETRACER CHECK OUT (2 BD SET)	\$10.00
QST Dec98	EASY DTMF SWITCH BY ON2CJX	\$6.00
QST Jun95	DTMF TO RS232C CONVERTER AND HF LINK CONTROLLER BY KG7SG	\$7.00
QST Nov94	TWO TONE GENERATOR	\$7.00
QST Nov92	REMOTE DTMF CONTROL USING YOUR HT	\$21.00
QST Nov'92	LITZ ZERO DECODER	\$7.00
QST Jul88	DTMF ENCODER	\$8.00
HRPT/PDUS/CHRPT DECODER PRINT BY ROB ALBLAS; PROGRAMMED EPROM AND PC BOARD		\$25.00

### FREQUENCY STANDARDS & FREQ MEASURING INSTRUMENTS

Publication	Reference Article	Price
73's Jan, Feb, & Mar94	WORLDS MOST ACCURATE FREQ STD BY ROEHIG PARTS 1,2, AND 3; (6 BOARD SET)	\$21.50
73's Jan91	HIGH PRECISION FREQUENCY STANDARD	\$7.00
73's Jan91	HF/VHF/UHF MARKER GENERATOR	\$5.75
ARRL HB 92-94 CHP34 FIG.60	MARKER GENERATOR FOR 100, 50, 25KHZ (98 HB CHP26 FIG.16)	
(88-91 HB CHP34 FIG.66)		\$4.50
ARRL HB (1988 ONLY) CHP25 FIG.33	CRYSTAL CALIBRATOR MARKER GEN FOR 100, 50, 25KHZ	\$6.00
ARRL HB CHP25 FIG.30	500 MHZ FREQ COUNTER PRESCALER & COUNTER (1991 HB FIG.29) 2 BOARD SET	\$15.00
ARRL HB CHP25-30	LOW COST FREQUENCY COUNTER BY BAINBRIDGE (1-40 MHZ) (FEB89 QST)	\$7.00
ARRL HB CHP25 FIG.32	500 MHZ FREQ COUNTER POWER SUPPLY	\$5.50
ARRL HB CHP25 FIG.34	500 MHZ FREQ COUNTER DISPLAY BOARD	\$6.00
COMM QRTL Y Spring98	A 7 DIGIT HF FREQUENCY COUNTER BY CARVER (2 BD SET)	\$10.00 SET
QRPP Jun96	DFD-5 SIMPLE DIGITAL FREQUENCY DISPLAY FOR THE EPIPHYTE-2 BY VE7QK	\$5.50
QRPP Jun94	OPTIONAL FREQUENCY COUNTER FOR NC40 BY JIM PEPPER	\$5.25
QST Dec00	THE UNICOUNTER - MINI-KIT BY STONE, PROG PIC, LED, CRYSTAL, & BOARD	\$21.50
VE3DNL	40KHZ, 20KHZ, 10KHZ, OR 5KHZ XTAL CONTROLLED MARKER GENERATOR USING 4060 IC	\$4.50

### KEYERS

Reference	Article	Price
73's Sep99	A SIMPLE PIC KEYS BY UY5DJ	\$4.50
73's Jun95	INEXPENSIVE MORSE CODE KEYS USING 4000 SERIES CMOS BY N2YMW	\$6.50
73's May92	COPPERBACK BEETLE BUG	\$3.50
73's Jun91	BRASS POUNDER MEMORY KEYS	\$19.50
73's May91	THE COPPERHEAD KEYS	\$3.50
73's May91	MINI-KEYER	\$5.50
73's Apr90	ROBOT ID KEYS BY VK3ZOT	\$7.00
ARRL CHP 22 HB 94	SINGLE CHIP CURTIS KEYS BOARD FOR 8044ABM.	\$5.25
ARRL HB 93	CHP29 FIG 19 CHIP TALKER: A VOICE "MEMORY KEYS"	\$16.50
ARRL HB 92-94	CHP29 FIG.3 A SIMPLE CMOS IAMBIC KEYS (88-91 HB CHP29 FIG.2)	\$6.75
ARRL HB 92	CW ON A CHIP CURTIS IC KEYS (8044M/BM) (88-91 HB CHP29 FIG.4)	\$5.25
ARRL HB CHP29 FIG 11	THE SUPER CMOS KEYS II USING MC6805	\$6.50
HR Jan90	QRP TLC KEYS	\$3.50
HR Oct89	DIGI-KEYER	\$7.00
CQ JUN 95	PIXIE 2 KEYS WITH 20 M TRANSMITTER AND SIDE TONE. SAME AS IN QRPP WINTER 97	\$7.00
QST JAN'07	AUDIO COMPUTER TO TRANSMITTER MORSE KEYS BY KF3AD	\$4.50
QST MAY 06	AUTO BUG KEYS WITH MESSAGE MEMORY P C BOARD	\$5.00
QST Feb'05	HOMEBREW YOUR IAMBIC KEYS 2.3" X 1.1" BOARD, BOARD & PROG PIC & 78L05	\$16.50
QST Aug04	CODE PLAYER BY W6BEG, P C BOARD AND TWO 24LC64 IC'S (ARRL WEB SITE CODE DOES NOT WORK)	\$12.50
QST Aug99	PIC16F84 BASED CW DECODER BY MORGANTINI P C BOARD WITH PROGRAMMED PIC	\$21.50
QST Dec97	COMPUTER KEYBOARD CW ENCODER BY ALSPAUGH	\$4.50
QST Jan95	CW WITH YOUR PC BY WB8DQT (ARRL HB 1996)	\$6.00
QST Sep92	DEBOUNCE FOR SEMI-AUTOMATIC SPEED KEYS	\$4.50

QST Feb92	INFRARED OPTOELECTRONIC STRAIGHT KEY	\$4.00
QST Aug91	IR KEYER INTERFACE, IR RX, IR TX (2 BOARD SET)	\$8.00
QST Aug91	IR KEYER INTERFACE, IR TX W/ CURTIS CHIP KEYER	\$5.50
RADIO FUN May93	BRYCE RADIO MAGIC KEYER	\$4.50
RADIO FUN Sep92	TAP KEY (2 BD SET)	\$10.50
RADIO FUN Jan92	CMOS IC KEYER	\$4.50

### MODEMS, COMPUTER/FAX/RADIO INTERFACES, SLOW SCAN, ATV

Publication	Reference Article	Price
73's Dec00	MORE THAN A MODEM MONITOR BY FRUITMAN	\$6.00
73's Aug99	A PSK INTERFACE BY WA8TXT	\$4.50
73's Aug95	19.2 BAUD MODEM INTERFACE USING MC1488 IC'S BY DEWEY	\$6.00
73's Feb94	ASCII TO MORSE INTERFACE	\$13.50
73's Mar93	FTR146 COMPUTER INTERFACE	\$10.00
73's Dec91	COMPUTER TUNING FOR RAMSEY REC KITS	\$7.00
73's Aug91	HIGH SPEED DATA ACQUISITION	\$4.50
73's Jun85	TUNE IN THE TU1000 RTTY	\$17.50
ARRL HB 00 Fig 22.80	ICOM/TEN-TEC SERIAL RADIO INTERFACE (BD,7417, MX232, 7805) 2010 HANDBOOK p 24.21	\$11.00
ARRL HB 00 Fig 22.81	KENWOOD SERIAL INTERFACE (BD,OPTO COUPLES, MX232, 7805) HANDBOOK p 24.22S	\$15.50
ARRL HB 92 CHP28 FIG.16	ATV MONITORING INSTRUMENT (91 HB CHP28 FIG.28)	\$12.50
COMM. QUARTERLY	Summer 93 ZL PACKET RADIO MODEM	\$7.00
COMM. QUARTERLY	Spring 93 FSK SIGNAL MONITOR	\$7.00
CQ Mar92	KENWOOD RS232 INTERFACE BOARD AND MX232	\$10.00
CQ VHF Oct98	INTERNET INTERFACE BOARD BY JOHN HANSEN	\$5.50
CQ VHF Nov96	SIX PORT SERIAL MULTIPLEXER BOARD	\$9.00
ELECTRONICS NOW Feb98	POCSAG ENCODER	\$4.50
HAMCOM	JV FAX 7.0 VER 8-31-94 USING 741, BOARD DESIGNED FOR DISCRETE COMPONENTS. BOARD SOLDERED ONTO A DB25 CONNECTOR	\$6.00
NUTS&VOLTS Nov97	PROGRAMMER COMPUTER CONTROL INTERFACE FOR YOUR SCANNER BY JOHN MONTALBANO. (SERIAL INTERFACE BOARD PROGRAMMER COMPUTER CONTROL INTERFACE (PARALLEL INTERFACE BOARD)	\$5.50 \$6.00
PRACTICAL WIRELESS	JV FAX WITH 3.5" DISK OF VER 7.0 SOFTWARE AND DOCUMENTATION	\$19.50
PE May96	BASIC MODEM 1200 BAUD USES TCM3105	\$4.50
QST JUN 09	SOUND CARD INTERFACE FOR FM RADIOS BYKH6TY	\$4.50
QST FEB. 07	SIMPLE BLUETOOTH RADIO INTERFACE 4 BOARD SET BYKU7Q	\$10.00
QST Nov 00	AN INEXPENSIVE -MODE TNC BY HANSEN	\$9.00
QST Nov 00	A FLEXIBLE DIGITAL-MODE INTERFACE BY MITRENGA	\$6.00
QST Jan00	AN MX614 PACKET MODEM BY N9ART	\$6.00
QST Jul97	PARALLEL PORT JV FAX ADAPTOR BY GRANT ZEHR	\$9.50
QST May96	COMPUTER CONTROL FOR RAMSEY FX-146 & FX440 BY KOWALSKY	\$4.50
QST Mar96	JV FAX APT ADAPTOR FOR WEATHER SATELLITES BY AA9LC (2 BOARD SET)	\$8.50
QST Dec95	IMP PACKET MODEM BY MARCHESI USING TCM3105 IC	\$5.50
QST Mar95	GRAIG LEE MODEM USING MAX231CPD IC TO MOUNT IN A DB25 CONNECTOR CASE	\$6.00
QST Jan94	INEXPENSIVE SSTV INTERFACE	\$5.50
QST Feb93	SEE CH22.45 and CH22.46 TEN-TEC/ICOM/YAESU, AND KENWOOD MODEM BOARDS;	
QST Jul92	LOW COST ICOM PC INTERFACE ; SEE ARRL HANDBOOK SECTION CH22.45	\$4.50
QST Sep91	IMPROVE HF WEATHER FAX	\$5.50
QST Sep91	INEXPENSIVE COMPUTER/RADIO INTERFACE	\$6.00
QST Jun88	A CHEAP AND EASY MODEM (3 BOARD SET) VIDEO MODULATOR BY KD2DB <a href="http://www.qsl.net/kd2bd/modulator.html">http://www.qsl.net/kd2bd/modulator.html</a>	\$23.00 \$5.50

### OSCILLATORS, VFO, BFO, FREQUENCY SYNTHESIZER PROJECTS

Publication	Reference Article	Price
73's Oct95	DDS DREAM DIGITAL VFO USING AD7006JP50 (IC MAIN AND SWITCH BDS)	\$17.50
73's Sep94	KENDRABOARD DIRECT DIGITAL SYNTHESIZER	\$5.50
73's Aug94	HOUDGKINSON STANDALONE DDS FREQ CONTROL	\$6.75
73's May94	UNIVERSAL VFO IN CARR'S CORNER	\$6.00
73's Mar94	TW-1 THIMBLE WELSH DDS VFO CONTROL (DOUBLE SIDED)	\$21.50
73's Feb94	COMPUTER CONTROL FOR WELSH DDS VFO	\$7.50
73's Jun92	8K CH FOR FX-146	\$4.50
ARRL W1FB QRP	NOTEBOOK TWO CHANNEL BFO (FIG 5-16)	\$4.50

ARRL W1FB QRP	NOTEBOOK 1991 UNIVERSAL VFO (FIG. 3-11) (QST6/91)	\$5.50
ARRL W1FB QRP	NOTEBOOK 1991 VARIABLE FREQUENCY OSC (FIG. 3-14)	\$6.25
ARRL QRP CLASSICS	A BEGINNER'S LOOK AT BASIC OSCILLATORS (QST 2/84)	\$4.50
ARRL QRP CLASSICS	TUNING DIODE APPLICATIONS AND A VVC TUNED 40M VFO (QST 9/7)	\$6.50
ARRL QRP CLASSICS	A VFO WITH BANDSPREAD AND BANDSET (QST 1/89)	\$4.50
CQ Jan97	TUNABLE BFO FOR 455 KHZ COLLINS FILTERS BY W1FB	\$5.50
CQ Jun91	W1FB VFO	\$4.50
HR Nov87	THUMBWHEEL FREQ SELECTOR FOR YAESU FT-757GX	\$15.50
QEX JAN/FEB 2008	2256 MHZ PLL LOCAL OSCILLATOR BY WA9PHY AND THE PROGRAMMED PIC	\$16.00
QEX Mar/Apr04	GENERATING A 1296 MHZ SIGNAL BY W1VT (MINI-KIT)	\$33.00
QEX Dec98	FAST DIGITAL STABILIZER BY PETE LAWTON	\$12.50
QEX Jul/Aug98	A CONTINUOUS COVERAGE HF VFO BY FRANCESCO MORGANTINI (5 BOARD SET)	\$24.00
QEX Jul97	DIRECT DIGITAL SYNTHESIS VFO WITH VER 3 PROGRAMMED PIC	\$18.50
QEX FEB06	FREQUENCY STABILITY FOR L-C OSCILLATORS	\$6.00
QRPP	THE CB SLIDER VFO BY MUSCOLINE	\$5.50
QST Jun04	SYNTHESIZER FOR DRAKE RECEIVER BY HAGEMAN (MINI KIT)	\$79.00
	INCLUDES P C BOARD, MC145170D2 IC, OP27GZ OPAMP, (2) 7805 REGULATORS, DISPLAY INTERFACE BOARD, 100 MHZ MINI CIRCUITS OSC, AND PROGRAMMED PIC.	
QST Jun92	UGLY WEEKENDER II VFO/ BUFFER BD	\$4.50
QST Jun91	UNIVERSAL VFO BY W1FB	\$5.50
QST Jul89	LOW COST MICROWAVE LOCAL OSCILLATOR (2 BDS) ON TEFLON	\$33.00
QST Jan89	VFO/W BANDSPREAD & BANDSET	\$4.50
QST Sep87	TUNING-DIODE APPLICATION AND A VVC-TUNED 40M VFO	\$6.50

## POWER SUPPLIES

Publication	Reference Article	Price
73's May95	MIKE BRYCE WART REMOVER 4X SUPPLY (2 BD SET)	\$16.50
73's Jan94	ABOVE AND BEYOND NEGATIVE SUPPLY SWITCHER CIRCUIT FOR DC TO DC CONVERTER	\$4.50
73's May93	EXPERIMENTERS POWER SUPPLY	\$7.00
73's Mar92	THE LAPPACK POWER SUPPLY	\$7.50
73's Oct90	DUAL VOLTAGE BENCH SUPPLY	\$5.85
HOMEBREW FALL 03	UNIVERSAL POWER SUPPLY BY WA2DJN	\$7.00
ARRL HB 96 28	VOLT HIGH CURRENT POWER SUPPLY (PS AND CROW BAR BOARDS)	\$8.00
ARRL HB 93	CHP27 FIG 22 SERIES REG 4.5 TO 25 V, 2.5 A POWER SUPPLY (95 HB FIG 11.32)	\$7.50
ARRL HB 88-94	CHP27 FIG.55A SWITCHING POWER SUPPLY	\$5.50
ARRL HB 88	CHP27 FIG.10 RF PROOF 30 AMP POWER SUPPLY	\$12.00
ARRL HB 88-94	CHP27 FIG.18 28 VOLT HIGH CURRENT POWER SUPPLY (95 HB FIG 11.5)	\$8.50
ARRL HB 88-94	CHP27 FIG.23 SERIES REGULATED 1.2V TO 15V 5A POWER SUPPLY	\$5.50
ARRL HB (88 & 90 ONLY)	CHP27 FIG.31 MULTIPLE VOLTAGE BENCH SUPPLY (2 BDS)	\$22.50
ARRL HB (91 ONLY)	CHP27 FIG.31A 13.5 VDC 22 A SWITCHING MODE POWER SUPPLY	\$13.50
ARRL HB (91 ONLY)	CHP27 FIG.31B OUTPUT CAPACITOR BOARD FOR SWITCHING PS	\$5.50
ARRL HB 88-90	CHP27 FIG.37, 40, & 43A SMORGASBORD POWER SUPPLY (3BDS)	\$20.50
ARRL HB 88-94	CHP27 FIG.72 RECTIFIER BOARD FOR 2000 VOLT POWER SUPPLY	\$13.50
ARRL QRP CLASSICS	AN ACCURATE, INEXPENSIVE FREQUENCY MARKER (QST 6/85)	\$4.50
ARRL QRP CLASSICS	1.25 TO 25 V, 2.5 REGULATED POWER SUPPLY (QST 9/89)	\$8.00
COMM QRTL Y Jul02	POWER SUPPLY REGULATOR BD BY STEVE WEBER	\$5.50
QEX Mar/Apr 99	POWER SUPPLY FOR A MOSFET POWER AMPLIFIER BY SABIN	\$9.00
QEX Nov/Dec98	40V 8A POWER SUPPLY FOR MOSFET AMPLIFIERS. USES LM317 AND 5-2N3773's	\$9.00
QST AUG'09	FOUR OUTPUT BENCH SUPPLY, USING LM2575T-3.3, TWO BOARD SET, FOUR IDENTICLE	
POSITIVE REGULATORS ON ONE BOARD AND A NEGATIVE SUPPLY BOARD BY CICCHINELL		\$11.00
QST Nov04	12V dc BOOST REG FOR BATTERY OPERATON BY N8XJK, CONTACT N8XJK (BOBBIN, 'E'CORE AND FERRITE FOR T1 AND P C BOARD) <b>DISCONTINUED</b>	
QST Dec98/Jan99	A 13.8V 40 AMP SWITCHING POWER SUPPLY BY MANFRED NORNHINWEG	\$20.50
QST Nov89	POWER SUPPLY DESIGN HINTS	\$6.00
QST Nov93	13.5V 5A. SPENCER POWER SUPPLY (BOARD AND MC3423P1 IC) (ARRL HB 95 FIG 11.37)	\$7.50
RADIO COMM. Apr96	40A POWER SUPPLY BY SPENCER	\$5.50
<b>TS-930 POWER SUPPLY</b>	BOARD BY VK4AMZ , \$7.00 SEE <a href="http://brisdance.com/vk4amz/ts930.html">http://brisdance.com/vk4amz/ts930.html</a>	\$7.00
<b>HIGH VOLTAGE DOUBLER PS</b>	USING TWO 6KV HV6-1 DIODES AND 8 FILTER CAPS 6" X 6"	\$16.50
<b>LARGE HI-V</b>	POWER SUPPLY BOARD WITH 10 FILTER CAPACITORS W/ 5 DIODES PER LEG 11"X 5"	\$24.00
<b>MEDIUM HI-V</b>	POWER SUPPLY BOARD WITH 8 FILTER CAPACITORS W/ 4 DIODES PER LEG 7"X4.5"	\$16.50
<b>SMALL HI-V</b>	POWER SUPPLY BOARD USING 6 FILTER CAPACITORS W/ 4 DIODES PER LEG 4.5" X 5"	\$11.00

TRIODE BIAS SUPPLY (GRID V) BY DL4MEA	\$4.50
<b>K5AND HIGH VOLTAGE POWER SUPPLY BOARD 6" X 8.75" FULL WAVE BRIDGE USING 12 CAPACITORS</b>	\$25.00
<b>10KV DIODE BOARD WITH 12 DIODES PER LEG, INCLUDES (48) 1N5408 DIODES AND 4.5" x 9.5" P C BD ASSEMBLED UNIT</b>	\$79.00
<b>10KV DIODE BOARD P C BOARD ONLY with 14 diodes per leg</b>	\$16.00
<b>9KV CAP BOARD FOR THE 10KV DIODE BOARD, (20) 1500uf CAPACITORS IN SERIES ON A 10.5" BY 10.0" BOARD. INCLUDES (20) 100K 3WATT CERAMIC RESISTORS, (20) 1500uf CAPS, AND PCB, READY TO ASSEMBLE</b>	\$199.00

## RECEIVERS

Publication	Reference Article	Price
73's Nov00	BUILD AN 80 METER FOX-FINDER RECEIVER BY JERRY BOYD	\$6.00
73's Feb99	A 40 METER RECEIVER BY THOMAS DUNCUN (2 BD SET)	\$14.50
73's Apr97	HALE-BOPP COMET AND ITS CONTROVERSIAL TALE, A COSMIC CRYSTAL SET	\$5.50
73's Oct95	HIGH PERFORMANCE REGEN ARMSTRONG S/W RECEIVER BY CRIPE	\$7.00
73's Mar/Apr95	PRACTICAL WEATHER SATELLITE RECEIVING SYSTEM BOARD	\$19.50
73's Oct94	DALTON TRAVELER MK-II REC FOR MC3335 OR MC3362 BOARD AND IC	\$10.00
73's Jan94-Mar94	ROEHRIG PARTS 1, 2, & 3 WWVB FREQUENCY STANDARD (6 BD SET)	\$21.50
73's Aug92	EXPLORER RECEIVER	\$5.50
73's Mar92	40/80 METER WAVE RYDER	\$6.00
73's Dec91	VLF SPACE SHUTTLE RECEIVER	\$8.50
73's Oct91	SUDDEN Rx G3RJV	\$6.00
73's Nov90	GOOF PROOF REGENERATIVE RECEIVER	\$4.50
73's Nov90	THE SMOKE DETECTOR RECEIVER	\$4.50
73's Feb88	MICRO-20 RECEIVER	\$5.25
ARRL QRP CLASSICS	BAND-IMAGING CW RECEIVER 10-18 MHZ 5 BD SET (HB CH30)	\$20.00
ARRL QRP CLASSICS	THE NEOPHYTE 40 METER RECEIVER USING NE602'S (QST 12/88)	\$5.50
ARRL QRP CLASSICS	FOUR STAGE 75M SSB SUPERHET (QST 5/89)	\$5.50
ARRL HANDBOOK 92	CHP30 A HIGH PERFORMANCE COMMUNICATION RCVR BY W7ZOI/K5IRK (9 BD SET)	\$38.00
	IF BOARD \$8.00	
	VFO BOARD \$4.50	
	CRYSTAL OSC BOARD \$4.50	
	MIXIER BOARD \$4.50 TWO SUPPLIED WITH SET	
	PRE SELECTOR BOARD \$5.00	
	AMP FILTER BOARD \$6.00	
	AF AMP BOARD \$7.00	
	ACTIVE AUDIO FILTER BOARD \$4.50	
ARRK HAND BOOK 2010	MICRO R2 RECEIVER BYCAMPBELL	\$8.50
ARRL W1FB QRP NOTEBOOK 1991	160 M. RECEIVER (FIG. 3-31)	\$8.25
ARRL W1FB QRP NOTEBOOK 1991	UNIVERSAL DIR-CON RECEIVER (FIG. 3-28)	\$7.00
ARRL W1FB QRP NOTEBOOK 1991	UNIVERSAL SUPERHET RECEIVER (FIG 6-9)	\$14.00
COMM. QUARTERLY Fall96	IF SYSTEM AND 80 db LOG AMP BY BERTINIQUARTERLY	\$8.00
Winter94	JOE CARR VLF REC	\$7.00
COMM. QUARTERLY Spring94	GYRATOR 2 RECEIVER REPLACED WITH GYRATOR # SEE FURTHER DOWN THE PAGE	\$8.00
CQ FEB'10	KITCHINS HIGH PROFORMANCE REGEN RECEIVER, 2 BOARD SET	\$7.00
CQ OCT'05	GRX- 1 RECEIVER BY JAMES GRAVES	\$16.50
CQ Apr96	LOW COST RECEIVER FROM AM TRANSISTOR RADIO BY DEMAU 3 BD SET	\$8.50
CQ Apr94	MICROPOWER VHF RECEIVER USING SL6659	\$5.50
EDN Sep25,1997	ELECTRONICS NOW SINGLE CHIP AIRCRAFT REC / NE605 BY STEVE HAGEMAN	\$4.50
NE602 BREADBOARD FOR BUILDING UP YOUR FAVORITE NE602 CIRCUIT		\$5.50
HAMBREW Spr94	IMPROVED NEOPHYTE RECEIVER FOR 40 METERS BY K6EIL USING NE602 IC'S	\$7.00
NUTS & VOLTS	VHF RECEIVER, 4 BOARD SET, DETAILS AT: <a href="http://www.nutsvolts.com/toc_Pages/TOC_Related_Info/0707/VHFrcvr.php">http://www.nutsvolts.com/toc_Pages/TOC_Related_Info/0707/VHFrcvr.php</a>	\$14.00
	MC3362 IC \$8.00EA.	
PE Mar94	NINE BAND SHORTWAVE REGENERATIVE RECEIVER BY WILLIAMS	\$13.50
PE FEB.'95	AAVSO VLF RECEIVER BY CARR	\$7.00
PE Jan95	A SIMPLE 10MHZ WWV RECEIVER BY MCKEAN	\$7.00
PE Mar94	9 BAND SW REGEN RECEIVER	\$13.50
QEX Sep/Oct00	SUPER REGEN VHF AND UHF RECEIVER	\$9.00
QRPP Summer97	MRX-40 RECEIVER BY STEVE BORNSTEIN	\$4.50
QRPP	NORCAL HEARING AID 5 RECEIVER BY VK1FB	\$8.50
QST Aug01	THE WBR RECEIVER BY DAN WISELL	\$4.50
QST Mar01	SIMPLE TRF RECEIVER FOR TRACKING RFI BY LITTLEFIELD	\$4.50

QST Sep00	KITCHIN SIMPLE REGEN RADIO FOR BEGINNERS (ARRL HANDBOOK 05)	\$6.00
QST May00	IMPROVING THE HAMTRONICS R139 VHF WEATHER-SATELLITE REC INTERFACE	\$4.50
QST Feb99	A SYNTHESIZED 2-METER FM RECEIVER WITH PC CONTROL BY STEVE HAGEMAN MINI-KIT INCLUDES P C BOARD, MC145135, MC145179, LM386, AND 10 MHZ CRYSTAL	\$35.00
QST May96	HI PERFORMANCE AGC/IF SUBSYSTEM BY CARVER	\$19.50
QST Aug95	ROCK BENDING RECEIVER FOR 7 MHZ BY HENDERSON	\$6.00
QST Aug92	HIGH PERFORMANCE DIRECT CONV. REC. BY KK7B	\$5.50
QST Jun92	UGLY WEEKENDER RECEIVER BD	\$7.00
QST May89	FOUR STAGE 75M SSB SUPERHET RECEIVER	\$5.50
QST Feb89	TRANSISTOR AM RADIOS AS HAM RECEIVERS (2 BD SET)	\$4.50
QST Sep86	THE SIMPLEceiver (2 BD SET)	\$5.75
QST Nov81	PROGRESSIVE COMMUNICATION 10-18MHZ RECEIVER BY W7ZOI/K5IRK (5 BD SET)	\$24.00
<b>BILLERICA AMATEUR RADIO SOCIETY</b>	<b>A SHORT WAVE REGEN REC BY KITCHIN'S SAME ONE AS IN ARRL HANDBOOK</b>	<b>\$6.00</b>
	JERRY BOYD ADF RECEIVER	\$6.00
	HEINECK DGPS RECEIVER PC BOARDWITH MC145157P2 PLL IC	\$13.50
	ONE TRANSISTOR RADIO BY MITZ	\$5.50
	PHILIPS Aug 97 APPLICATION NOTE AN1993 FOR SA602 AND SA604	\$8.00
	STOKES GYRATOR RECEIVER GYRATOR 3 GYRATOR III WITH DI FILIPPO MODIFICATIONS	\$7.50
	`GreenVLF 8-16-08 rev board	\$6.00

### RECEIVER PREAMPLIFIERS

Publication	Reference Article	Price
73's Nov95	GENERAL PURPOSE 1 TO 1000 MHZ WIDE BAND AMPLIFIER BY DAVE MILLER	\$4.50
73's Jul95	LOW NOISE 1691 MHZ LNA AMP USING MAAM12032 IC'S BY KOCSIS (ON .031" TEFLON)	\$9.00
73's Dec94	CARRS CORNER SINGLE BAND HF PREAMP	\$5.75
73's Oct94	CARR'S SIMPLE BAND-PASS FILTER FOR RECEIVERS	\$5.25
73's Nov93	REMOTE TUNED ACTIVE ANTENNA/CORNELL (2 BD SET)	\$5.50
73's Mar92	GaAsFET PREAMP SEQUENCER	\$4.50
ARRL HB CHP32 FIG 81	LOW NOISE PREAMPS 2304MHZ (ON G-10)	\$5.85
ARRL HB CHP32 FIG 81	LOW NOISE PREAMPS 3456MHZ (ON G-10)	\$5.85
ARRL HB CHP32 FIG 81	LOW NOISE PREAMP 5760MHZ (ON G-10)	\$4.50
ARRL HB CHP32 FIG 81	LOW NOISE PREAMPS 10GHZ (ON G-10)	\$4.50
ARRL HB CHP32 FIG 81	LOW NOISE PREAMPS 10GHZ ATF (ON G-10)	\$4.50
ARRL HB CHP32 FIG 1	432-435 UHF GaAsFET PREAMP,70CM, 15db, .55dbNF 2010 HANDBOOK P12.36	\$6.00
ARRL QRP CLASSICS	VARIABLE-NOTCH FILTERS FOR RECEIVERS (QST 1/85)	\$4.50
ARRL QRP CLASSICS	BROADBAND AND NARROW BAND AMPLIFIERS (QST 4/84)	\$4.50
ARRL W1FB DESIGN NOTEBK FIG 5-20	80/160 METER AMPLIFIER (QST 8/88)	\$4.50
COMM QRTERLY Fall94	SYNCHRONOUS DETECTOR	\$6.25
CQ Feb97	BEVERAGE ANTENNA SWITCH USING THREE REED RELAYS BY GARY NICHOLS KD9SV	\$4.50
HAMBREW Spring94	IMPROVED NEOPHYTE	\$7.25
HR Oct89	160M VARIABLE GAIN PREAMP	\$5.75
LOW &MEDIUM FREQ SCRAPBOOK 9 <sup>th</sup>	ED RADIO CORNELL REGEN RECEIVER PREAMP	\$4.50
LOWDOWN JOURNAL	RECEIVER VARACTOR CONTROLLED PREAMP BY CORNELL	\$4.75
NUTS & VOLTS Feb99	A UNIVERSAL IF AMPLIFIER BY JOE CARR	\$5.50
POPULAR ELECT Dec95	CARR MMIC PREAMP USING MAR-6 IC	\$4.50
POPULAR ELECTApr95	AM BROADCAST BAND PRESELECTOR BY J. CARR	\$7.00
QEX Jul/Aug 04	DOUBLY BALANCED H MODE MIXER HF IK4AUY <a href="http://xoomer.virgilio.it/sergiocartoceti/article_7.htm">http://xoomer.virgilio.it/sergiocartoceti/article_7.htm</a>	\$7.50
QEX Jun04	GENERAL PURPOSE 100KHZ TO 2 GHZ LOW NOISE PREAMP BY AA8C	\$16.50
QST Jan06	SIMPLE ADD-ON RF SATE FOR REGEN RECEIVERS BY N1TEV WITH RFC INSTALLED	\$4.00
QST JUN06	160 METER RECEIVING LOOP PREAMP BY W9SR	\$9.00
QST Sep01	THE AMRAD ACTIVE LF ANTENNA BY GENTGES (2 BD SET)	\$9.50
QST Nov97	MMIC PREAMP USING AN MAR-6 BY BILL PARMLEY	\$4.50
QST Jul94	MICHAELS NULL STEERER AMP	\$4.50
QST Aug88	160M PREAMPLIFIER	\$4.50
RADIO FUN MAG Aug93	CORNELL WIDE BAND RECEIVER AMPLIFIER	\$8.00
K9AY	LOOP ANTENNA SWITCH BOARD AND BANDPASS FILTER/PREAMP BOARD wALL THE PARTS EXCEPT, POWER TRANSFORMER, SELECTOR SWITCH AND CABINET	\$48.00

**REPEATER CONTROLLER & STATION ACCESSORIES**

<b>Publication</b>	<b>Reference Article</b>	<b>Price</b>
<b>432 EME NEWSLETTER</b>	AZ& EL LINEAR QUADRATURE ENCODER INTERFACE BY DARRELL WOODS VE1ALQ	\$14.50
<b>EL10A121 AND EL10A122</b>	BY JOHN KIETH USED IN THE EL 10A-1 400 WATT ELECTRONIC LOAD see <a href="http://www.bwcelectronics.com/projects/EL10A190.PDF">http://www.bwcelectronics.com/projects/EL10A190.PDF</a>	\$9.80
73's Sep99	PORTABLE 2 METER J-POLE ANTENNA BY WA8TXT	\$4.50
73's Jun97	MAXIMIZE YOUR TRANSCEIVER'S TUNING RANGE, ADDED COMPUTER CONTROL TO THE RAMSEY FX UNITS	\$5.50
73's Feb97	ELEGANT ROTATING CONTROLLER W/ENHANCED BEAM AIMER CIRCUIT	\$19.50
73's Nov95	A SIMPLE AC POWER LINE WATTMETER BY ED MILLER	\$4.50
73's Jan95	PTT CONTROL FROM REC. AUDIO BY KB8XI	\$4.50
73'S Sep95	TUNER HELPER (2 BOARD SET)	\$7.00
73's Oct94	VERONESE QUICK AND CHEAP TENNER	\$4.25
73's Oct94	QRP COLUMN BRYCE QSK T/R MODULE	\$8.75
73's Nov93	NEELEY VOX MOBILE	\$8.50
73's Oct93	UNIVERSAL AUTOMATIC MINIMUM POWER CONTROL FOR AMTOR (2 BD SET)	\$6.25
73's Sep93	ADD REMOTE BASE CAPABILITY	\$4.50
73's Feb91	QRP COLUMN STATION T/R CONTROLLER	\$7.50
73's Feb91	ATV COLUMN TEN MI NUTE ID TIMER	\$4.50
73's Sep90	VISUAL CW OFFSET I4 NDICATOR	\$4.50
73's Jan84	PIGGY BANK REPEATER PROJECT	\$7.00
73's Jul79	TENNAMATIC	\$7.50
AMSAT JOURNAL Nov/Dec '97	MICRO-DUPLEXER BY CHUCK DUEY (ON G-10)	\$3.50
AMSAT JOURNAL Nov/Dec '97	MICRO-DUPLEXER BY CHUCK DUEY (ON TEFLON)	\$6.00
AMSAT JOURNAL JUL '06	STALITE TRACKING INTERFACE G-5500, G-5400, NOVA, AND SatPC32 BY WA8SME W/ PIC	\$19.00
ARRL HB 2002 CHP 22	SIMPLE 10 MINUTE TIMER BY WDOO (QST 11/93) USES 555 AND 4017 IC's	\$4.50
ARRL HB 2002 CHP 22	INTERFACE HIGH VOLTAGE EQUIPMENT TO SOLID STATE ACCESSORIES.	\$4.50
ARRL W1FB QRP NOTEBOOK 1991	DSB GENERATOR (FIG. 4-22)	\$5.50
ARRL W1FB QRP NOTEBOOK 1991	QSK TR SWITCH (FIG. 4-24)	\$4.50
ARRL W1FB QRP NOTEBOOK 1991	BREAK-IN DELAY TR SWITCH (FIG. 4-26)	\$4.50
COMM QUARTERLY Winter 1999	SQUELCH FOR THE MFJ-9406 BY RICH LITTLEFIELD	\$4.50
COMM QUARTERLY Fall 1991	COMPUTER BASE MONITOR	\$4.50
CQ Feb97	BEVERAGE ANTENNA SWITCH using three reed relays BY	\$4.50
CQ Feb92	THE CNT-1 SIMPLE QRP TRANSMITTER CONTROLLER BY PAT BUNN	\$6.00
CQ Jan91	AUTO BEAM-AIMER HD-73 ANTENNA ROTATOR (INCLUDES PART PLACEMENT OVERLAY)	\$9.00
ELECTRONICS NOW Oct98	WEATHER VANE WIND DIRECTION INDICATOR	\$6.00
EME NEWS LETTER VE1ALQ	CONTROLLER BD	\$16.00
FUN RADIO MAG Oct91	10 MINUTE ID REMINDER	\$5.50
MONITORING TIMES Jan97	THREE ANTENNA SWITCH SELECTOR SWITCH BY W1FB	\$4.50
NCJ May/Jun95	AUTOMATICALLY SWITCHED RECEIVER BAND BASS FILTER BY BROCK-FISHER	\$12.50
NCJ May/Jun95	RADIOFUN 9 MINUTE TIMER	\$4.50
PE Dec71	DISTORTIONLESS AUDIO COMPRESSOR BY CARINGELLA	\$6.00
QEX Nov/Dec01	TWO-METER REFLECTIVE SP4T PIN DIODE SWITCH	\$7.75
QEX Sep/Oct00	NARROW BAND-PASS FILTER FOR HF BY WILLIAM SABIN	\$4.50
QEX Jul/Aug99	DIPLEXER FILTERS FOR HF MOSFET POWER AMP BY SABIN (6 FILTERS ON 1PC BOARD \$30.00)	\$8.50ea
QEX Sep/Oct98	REMOTE BANDSWITCH "BUG CATCHER" ANTENNA RELAY BOARD BY PAUL PROTAS	\$6.50
QEX Jan/Feb99	A PAIR OF 3CX800s FOR 6 METERS, THE CONTROL BOARD BY HANSEN	\$6.50
QEX May/Jun87	KR500A (TWO BOARD SET)	\$15.50
QRPP	NORCAL ST LOUIS TUNER BOARD	\$5.50
QRPP Jun96	DFD-5 SIMPLE DIGITAL FREQUENCY DISPLAY BY VE7QK USED WITH THE EPIPHYTE-2	\$7.00
QST FEB'10	BLOOM FAN CONTROLLER FOR MFJ4125 POWER SUPPLY, includes board, mcp9701 thermister, tip29, and 2n3904 transistors	\$6.00
QST JAN 07	RF ACTIVATED TIMER	\$4.50
QST JUL 06	3 POSITION REMOTE ANTENNA COAX SWITCH BY K5DVW TWO BD SET	\$18.00
QST Sept '05	SATELITE TRACKER INTERFACE BY WB8SME	\$7.00
QST APR05	SIX PORT REMOTE ANTENNA SWITCH BOARD & EYELETS & RELAYS BY KO4NR 2009 HANDBOOK p. 24.3	\$42.00
QST Oct 04	HINTS AND KINKS KENWOOD TS850 BATTERY REPLACE HOLDER, P C BOARD, HOLDER, TAPE	\$4.50
QST Aug04	RF DRIVEN ON-AIR INDICATOR BY KB9STR, THIS BOARD IS FOR THE RF SENSING CIRCUIT	\$4.50
QST JULY 94	SCRA FIELD DAY FILTER BY N1AL	\$12.00
QST Jun03	AFFORDABLE Az-EI POSITIONER FOR SMALL ANTENNAS the FODTRACK BD	\$5.50
QST Nov02	ROTOMAPIC BY K7NTW	\$7.00

QST Jun01	SPOT GRABBER BY JORGE; INCLUDES PROGRAMMED PIC,MAX232& BOARD	\$21.50
QST May00	AUTOMATIC AMPLIFIER SELECTION FOR THE ICOM IC746, 736, AND 706 MKII	\$4.50
QST Dec99	DIRECT FREQUENCY ENTRY KEYPAD FOR ICOM TRANSCEIVERS BY JOHN HANSEN	\$4.50
QST Dec99	A PSK31 TUNING AID BY DON URBYTES	\$6.50
QST May98	REMOTE BASE STATION CONTROLLER USING THE BASIC STAMP BY HANSEN	
\$6.00		
QST Jan98	A PIC OF AN IDer BY BOB ANDING	\$4.50
QST Mar97	ATL-10 ANTENNA TUNER FOR 160 THRU 30M BY AGSTEN	\$9.50
QST Mar97	RELATIVE INDICATION AUDIBLE METER READER BY MCCOSKEY	\$4.50
QST Jan97	RADIO MAILBOX, DTMF ACTIVATED VOICE RECORDING SYSTEM BY WA2ANG	\$13.50
QST Nov95	DISPLAY FOR KENWOOD MF/HF RADIOS BY BIENVENU	\$5.50
QST Feb96	ROTOR PAL ROTOR CONTROLLER	\$7.00
QST Sep95	AUTOMATIC REMOTE ANTENNA TUNING CONTROLLER BY MANDELKERN	\$7.00
QST Jun/Jul95	VOICE-TRACK, MULTIFUNCTIONAL TALKING REPEATER CONTROLLER	\$31.00
QST Apr93	REMOTELY CONTROLLED ANTENNA SWITCH BY KG7SG WITH RELAYS AND EYELETS (2000 ARRL HB PAGE 22.41)	\$36.00
QST Oct92	AUDIO NOISE VOTER	\$7.00
QST Aug88	A VERSATILE TIMER/CONTROLLER	\$4.50
QST Jul88	A SIMPLE TUNING INDICATOR	\$11.00
<b>CRUSHCRAFT</b>	MN5/MN7 BALANCH MATCH REPLACEMENT BOARD	\$13.50
	SHOEMAKER COR/AUDIO BOARD	\$7.00
	FODTRACK P C BOARD	\$5.50
	HEATHKIT SBA-104-1 P C BOARD NOISE BLANKER	\$8.00
	ALAN BLOOM MFJ 4125 FAN CONTROL	\$4.50

## RF POWER AMPLIFIERS

Publication	Reference Article	Price
73's Oct90	MOUSE-FET 40 WATT CW AMPLIFIER (DOUBLE SIDED PCB)	\$7.75
73's Nov91	A SIMPLE 10 METER SIDE BAND AMPLIFIER	\$7.00
73's Oct92	2 METER FET POWER AMP	\$7.00
73's May93	AN EVERYTHING AMPLIFIER (200W OUTPUT TO 200MHZ) (2 BOARD SET)	\$8.00
73's Nov93	FARA 25W 2M AMPLIFIER	\$10.00
ARRL HB CHP 17.88	BROADBAND HF AMP, USING IFR510's, 1W IN 40W OUT (TWO BOARD SET) by WA2EBY	\$19.50Set
ARRL HB 95 CHP 17 50 WATT HF AMP (3 BD SET)		\$17.50
ARRL HB 95 (CHP 30 FIG 70 & 71, FIG 13.39A)	1500 W LINEAR AMP (ALC BD AND CONTROL BD)	\$9.00
ARRL HB CHP 23	23CM 10W AMPLIFIER USING M57762 HYBRID MODULE BY K9EK	\$9.00
ARRL HB CHP31 FIG 96	2 KW AMPLIFIER FOR 50-54 MHZ	\$7.00
ARRL HB CHP31 FIG 106	MEDIUM POWER 144 MHZ AMPLIFIER (2BD SET)	\$12.50
ARRL HB 93-92 CHP32 FIG 6	70CM PREAMPLIFIER	\$7.00
ARRL HB CHP32 FIG 69	1296 MHZ 3W (10DB) MMIC RF POWER AMPLIFIER	\$4.50
ARRL HB CHP32 FIG 74	NE41620 80MW AMPLIFIER	\$7.00
ARRL HB 92-93 CHP32 FIG 69	1296 POWER AMPLIFIER (CHP32 FIG.78 (88-91)) (2 BD SET)	\$5.25
ARRL HB PG 13.50	2 METER RF AMP, USING TOSHIBA S-AV7 FOR 25W OR S-VA17 FOR 50W OUTPUT	\$9.00
ARRL QRP CLASSICS	PUTTING BOOTS TO HW-8 QRT TRANSCEIVER (QST 4/79) 2 BD	\$16.50
ARRL W1FB QRP NOTEBOOK 1991,	5W QRP AMP (FIG. 4-16)	\$5.50
CQ Mar97	6 METER 60 WATT AMP BY W1FB USING TWO MRF137 FETS WITH 10DB GAIN	\$11.00
CQ Jan96	25 WATT LINEAR HF AMPLIFIER BY W1FB	\$11.75
G-QRP SUMMER 05	15 TO 25 W LINEAR HF AMP BY G4COE, WITH 45 DB GAIN	\$10.00
HR Nov88	1296 MHZ LOWNOISE 3 WATT OUTPUT FOR 10MW INPUT POWER AMPLIFIER USING M67715 MODULE ON FR-4 MATERIAL	\$9.50
HR Nov88	1296 MHZ LOWNOISE 3 WATT OUTPUT FOR 10MW INPUT POWER AMPLIFIER USING M67715 MODULE ON TEFLON MATERIAL	\$16.50
HR Feb85	150 WATT AMPLIFIER (2 BD SET) (FIG 7B AND FIG 7C)	\$17.75
MOTOROLA ENGINEERING BULLETIN EB-18A	UHF 45 WATT RF AMPLIFIER USING MHW709 AND MRF644	\$9.50
MOTOROLA APP NOTE1	WATT OUTPUT 50-1000MHZ RF AMPLIFIER WITH 17 DB GAIN USING MOTOROLA CA5801 OR CA5815 IC. BOARD IS TEFLON	\$8.00
MOTOROLA APP NOTE AN-762	LINEAR AMP FOR MOBILES	\$16.50
MOTOROLA APP NOTE AN-779	1.6 TO 30 MHZ SSB DRIVER HOG-9A	\$8.50
MOTOROLA APP NOTE AN-779	1.6 TO 30 MHZ SSB DRIVER HOG-11A	\$12.25
MOTOROLA APP NOTE AN-791VHF	POWER AMP,75 W ,10dB, CLASS AB , SSB, ATV, FM USING MRF247	\$8.50
NORTH TEXAS MICROWAVE SOCIETY	1296 POST AMP NO-TUNE TRANSVERTER BY McINTIRE	\$9.00
QEX Jan04	RF AMPLIFIER 200 WATT POWER AMPLIFIER	\$8.00

QEX Nov/Dec99	A 100 WATT MOSFET HF AMPLIFIER BY WILLIAM SABIN; 7 BOARD SET	\$13.50set
QEX May/June99	A 300 W MOSFET LINEAR AMP FOR 50MHZ BY R. FREY	\$12.50
QEX Jan/Feb99	A PAIR OF 3CX800s FOR 6 METERS, THE CONTROL BOARD BY HANSEN	\$6.50
QEX Mar93	432 NO TUNE AMP USING MAV-11 AND MRF559, -10DBM INPUT TO +17DBM OUTPUT	\$10.00
QEX Jun88	SOLID STATE LINEAR AMP FOR 33 CM	\$7.00
QST JUNE 2007	SOLID STATE RF AMPLIFIER THE EXTENDED HOG14A FOR MRF150'S	\$19.00
QST Dec 05	SUPERPACKER HF AMP (TWO SWR BDS, TWO CONTROL BDS, FILTER BD, DAUL LED, PROGRAMED PIC, CRYSTAL,7445, 7805	\$48.00
QST Jun03	FARA HF AMP PROJECT 2 BD SET	\$18.00
QST Feb94	BREED PA AND FILTERS (SPECIFY 25 W OR 50W PA) PA BD	\$5.50
QST Feb94	BREED PA AND FILTERS (SPECIFY 25 W OR 50W PA) FILTER BD	\$7.75
QST Oct90	COMPACT BRICK 100W AMPLIFIER FOR 6 METERS USING MRF492	\$17.50
QST Jun90	903 MHZ LINEAR AMPLIFIERS: 10MW SD1330 AMP (FIG 3)	\$4.50
QST Jun90	903 MHZ LINEAR AMPLIFIERS: 2X SD1598 AMP (FIG 12)	\$6.25
QST Jun90	903 MHZ LINEAR AMPLIFIERS: 100-250MW AMP (FIG 5)	\$4.50
QST Jun90	903 MHZ LINEAR AMPLIFIERS: 1 WATT SD 1598 AMP (FIG. 17)	\$7.00
QST Jul90	2 WATT 903 MHZ SD1853 AMPLIFIER	\$5.50
QST Apr89	POWER FET AS RF AMP, 12W BD	\$9.50
QST Apr89	POWER FET AS RF AMP, 25W BD (ARRL W1FB DESIGN NOTEBOOK FIG 6-9)	\$12.25
QST Aug88	25 WATT LINEAR AMPLIFIER FOR 144MHZ	\$13.50
QST Aug88	25 WATT LINEAR AMPLIFIER FOR 220MHZ	\$13.50
<b>RF Micro DEVICES</b>	RF2163 3V 2.5 LINEAR AMPLIFIER BOARD	\$6.00
<b>RF Micro DEVICES</b>	RF2126 1W OUT POWER LINEAR AMPLIFIER AMP BOARD AND RF2126 IC AND ALL THE CHIPS	\$16.00
	DENTRON GLA-1000B REPLACEMENT BOARDS FOR THE AMP	\$25.00
	TED LEE GL1000 G17B SINGLE TUBE CONVERSION (2 BOARD SET)	\$14.50

#### TEST EQUIPMENT & GENERAL MEASURING INSTRUMENTS

Publication	Reference Article	Price
	TOMI ENGAHI TIME DOMAIN REFLECTOMETER KIT	\$10.00
	Details at <a href="http://www.epanorama.net/circuits/tdr/html">www.epanorama.net/circuits/tdr/html</a>	
73's Nov00	ADD ON DIGITAL VOLTMETER BY JAMES ELKINS (Two Board Set)	\$7.00set
73's Jan00	JUNK BOX AUDIO TEST GENERATOR BY SELLEN	\$8.00
73's Dec97	HAM TO HAM COLUMN BY DAVE MILLER "BEEPER SHOUT DETECTIVE"	\$5.25
73's Dec95	MILLIOHM ADAPTER FOR DMM BY KITCHENS	\$4.50
73's Nov95	GENERAL PURPOSE WIDE BAND AMP 50HZ TO 100 MHZ BY MILLER	\$4.50
73's Aug95	SIMPLE PRECISION VOLTAGE STANDARD USING AD586 IC BY KITCHENS	\$7.75
73's Jul94	CONSUGAR DELAY VIDEO TRIGGER FOR OSCILLOSCOPE	\$5.25
73's Jul93	DIRECT READING L METER	\$5.25
73's Jul93	DELUXE FUNCTION GENERATOR BY CRIPE	\$5.50
73's Jul93	ATV COLUMN GRAY SCALE GENERATOR	\$4.50
73's Aug93	FM PACKET DEVIATION METER	\$4.50
73's May92	QRP EXPANDED LED READOUT VOLTMETER	\$9.00
73's Mar92	PULSED CRYSTAL SOURCE	\$4.50
73's Feb92	NE-602 RF SIGNAL GENERATOR	\$5.50
73's Jan92	IMPROVED CRYSTAL TESTER WITH POWER SUPPLY BD (2 BD SET)	\$7.00
73's Jan92	FUNCTION GENERATOR	\$7.25
73's Jan92	DIRECT READING INDUCTANCE METER	\$3.50
73's May91	HANDY INDUCTANCE BRIDGE	\$4.50
73's Sep90	THE COIL TESTER	\$4.50
73's Feb90	SPECTRUM ANALYZER (TO CONVERT SCOPE)	\$4.50
73's Nov88	ALL ABOUT HENRY	\$5.25
73's Dec83	MAKE A GOOD L METER BETTER	\$7.00
ARRL HBK 95 CHP 25	LOW POWER STEP ATTENUATOR	\$9.00
ARRL HB(88 ONLY) CHP25 FIG.43	DUAL GATE MOSFET DIPMETER	\$4.00
ARRL HB	DIGITAL IC MULTIMETER (QST Aug82)	\$12.00
ARRL HB(88 ONLY) CHP25 FIG.18	AN IC VOLTMETER (QST Jan82)	\$4.00
ARRL HB	CHP25 FIG.4 SIMPLE INDUCTANCE METER	\$7.00
ARRL HB 88-90	CHP29 FIG.15 AN RS232-C BREAKOUT BOX (CHP29 FIG.21)	\$21.00
ARRL HB CH 26	MEASURING L AND C WITH DVM SEPARATE BOARD FOR L AND C PRICE EACH	\$5.50
CQ Apr97	MULTI-PURPOSE BROADBAND AMP FOR 1 TO 50 MHZ AND 1 WATT AMP BOARD 2 BD SET	\$8.00
HR May89	MICROFARAD COUNTER	\$3.00
HR Jul89	50 MHZ RF BRIDGE	\$5.50

HR Jul89	SIMPLE RF VOLTMETER	\$6.75
NUTS AND VOLTS OCT '07,	ANALOG MIXED & MATCHED, A 4 I/O DISTRIBUTION AMP BY CICCHINELLI, 4 BOARD SET	\$18.00
NUTS AND VOLTS Aug'08	AUDIO SPECTRUM ANALYZER BY CICCHINELLI THREE BOARD SET	\$19.00
NEDA JOURNAL	G0JVU DEVIATION UNIT FAX X1 VERSION 2.0 PC BOARD	\$7.00
PE Feb90	AUDIO SWEEP/ BURST GENERATOR	\$9.00
POPTRONICS Jul01	IN-CIRCUIT CAPACITANCE TESTER BY SMITH	\$5.50
QEX NOV/DEC '07	SAN2PC: SPECTRUM ANALYZER TO PC INTERFACE BY F2DC PC BOARD AND PROGRAMMED PIC	\$19.50
QEX Jul/Aug03	A PC-BASED DIGITAL STORAGE SCOPE/LOGIC ANALYZER BY K3PTO (5 BD SET)	\$41.00set
QEX Sep/Oct01	BUILD A SIMPLE HIGH RESOLUTION DC VOLTMETER BY TIPTON	\$15.50
QEX Jan/Feb00	HAGEMAN 250 mhz SIGNAL GENERATOR, (5 BD SET)	
	SEE AT <a href="http://www.geocities.com/hagtronics/source/index.html">http://www.geocities.com/hagtronics/source/index.html</a>	\$27.00set
QEX Jul95	TERMINATION IN-SENSITIVITY AMPLIFIER 2-100MHZ, 9.5 DB GAIN	\$6.50
QST Nov05	LOW COST DDC FUNCTION GENERATOR BY RICHARDERSON	\$7.50
QST May03	MODERN GDO GATE DIP OSCILLATOR BY N1AL	\$4.50
QST Sep01	THE DIGITAL METER SUPPLY BY MIKE BRYCE	\$6.50
QST Mar00	A SIMPLE METER TESTER BY STANLEY	\$4.50
QST Dec99	A PSK31 TUNING AID BY DON URBYTES	\$6.50
QST Nov98	CHANNEL WATCH, MULTIPLE-FREQUENCY ACTIVITY MONITOR BY JOHN HANSEN	\$7.00
QST Oct98	PIC PROGRAMMER BY HANSEN	\$4.50
QST Jan/Feb98	BUILD YOUR OWN NETWORK ANALYZER BY STEVE HAGEMAN. 4 BOARD SET	\$23.00
	Check <a href="http://www.sonic.net/~shageman/">http://www.sonic.net/~shageman/</a> for latest project updates	
QST Mar97	A RELATIVE-INDICATION AUDIBLE METER READER BY McCLOSKEY	\$4.50
QST May94	NOISE SOURCE BY SABIN (.5 TO 500 MHZ and 1MHZ TO 2.5 GHZ)	\$4.25
QST Apr94	FUNCTION GENERATOR WITH FREQ COUNTER AND READOUT (2 BD SET)	\$17.50
QST Aug93	DUAL RANGE AC VOLTAGE, CURRENT, FREQ MONITOR	\$9.00
QST May93	EXPANDED RANGE AC/ DC VOLTMETER (BOARD ONLY)	\$4.00
QST May93	EXPANDED RANGE AC/ DC VOLTMETER (BOARD AND MC3423P)	\$7.50
QST Dec92	EXPANDED RANGE ANALOG VOLTMETER	\$4.50
QST Jan90	CRYSTAL TESTER FOR F, Q, AND R BY W1FB	\$7.00
QST Jun89	MULTIPURPOSE INSTRUMENTATION AMP/TESTER	\$12.50
QST Dec87	RX NOISE BRIDGE (ARRL HB CHP25 FIG.74) (ALSO FIG.65.2)	\$5.75
QST Sep86	CAPACITOR METER	\$4.50
QST Aug82	DIGITAL IC VOLTMETER (ARRL HB CHP25 FIG.18)	\$12.00
	3.5 DIGIT DVM BY PETER KEIRLE (2 BOARD SET)	\$8.00
RADIO FUN MAG Apr92	VOLTSENTRY	\$5.50
<b>NOSS BROAD BAND HF NOISE GENERATOR</b>	FOR FILTER ALIGNMENT	\$4.50
	SEE AT <a href="http://home.earthlink.net/~n0ss/noise_source.pdf">http://home.earthlink.net/~n0ss/noise_source.pdf</a>	
NOSS CW ZERO BEAT DETECTOR WITH LED INDICATION		\$4.50
	SEE AT <a href="http://home.earthlink.net/~n0ss/kr5l_cw_tuning_ind.pdf">http://home.earthlink.net/~n0ss/kr5l_cw_tuning_ind.pdf</a>	
LOGIC ANALYZER BY L CICCHINELLI K3PTO	SEE <a href="http://www.qsl.net/K3PTO">http://www.qsl.net/K3PTO</a>	\$12.00

### TR-7 and HW-8 MODIFICATIONS

Publication	Reference Article	Price
ARRL QRP CLASSICS IMPROVING THE HW-9 TRANSCEIVER (QST 4/88)	SWR BOARD	\$3.50
ARRL QRP CLASSICS IMPROVING THE HW-9 TRANSCEIVER (QST 4/88)	AUDIO THUMP SUPPRESSOR BD	\$3.50
COMM QUARTERLY Summer92	TR-7 MODIFICATIONS (4 BOARD SET)	\$17.50
HR Aug87	BETTER FREQUENCY STABILITY FOR DRAKE TR7	\$8.00
QST Jul82	WARC AND LF ON THE TR-7	\$6.00

### TRANSCEIVERS

Publication	Reference Article	Price
<b>STEVE WEBBER</b>	75M SIMPLE SSB TRANSCEIVER <a href="http://kd1jv.qrpradio.com/ssbrig/SSB.HTM">http://kd1jv.qrpradio.com/ssbrig/SSB.HTM</a>	\$8.00
<b>BITX 6 WATT SSB TRANSCEIVER</b>	FOR 14 MHZ BY VU2PEP <a href="http://www.phonestack.com/farhan/bitx.html">www.phonestack.com/farhan/bitx.html</a>	\$25.00
	REC AND TRANSMITTER BOARDS	
73's Jul98	SENIOR 85 QRP TRANSCEIVER FOR 80, 40, OR 30 METERS BY WA8TXT	\$13.50
73's Sep94	1750 TRANSCEIVER BY DAVID CURRY	\$16.50
73's Jan93	SP-1 TRANSCEIVER	\$8.00
73's Jun92	20M 8-W XCEIVER (COMPLETE 4 BOARD SET)	\$14.50
73's Nov90	TTL TRANSCEIVER FOR 40 METERS BY WB0NQM	\$4.50
73's Apr90	10 GHZ FUN (2 BD SET)	\$8.50
73's Jun89	QRP CW TRANSCEIVER FOR 30 OR 40 M (SINGLE SIDED)	\$10.50
73's Feb82	THE FUN MITER OSCILLATOR, RECEIVER, AND RF AMP	\$9.00

ARRL HB CHP30 FIG.2	THE QRP THREE-BANDER TRANSCEIVER (QST 10/89)		\$12.50
ARRL HB CHP30 FIG33&FIG37A	PORTABLE QRP CW XCEIVER (QST 12/90 & 1/91) (2 BOARD SET		\$14.50
ARRL HB 95 FIG 17.86	NN1G COMPACT SINGLE BAND TRANSCEIVER FOR 80-20 (2 BD SET)		\$10.00
ARRL HB CHP 32	2 MBPS 10 GHZ LINK LOGIC BOARD AND FRONT END AMPLIFIER		\$17.50
ARRL W1FB DESIGN NOTEBK FIG 6-15	1.5 W 40 METER CW TRANSCEIVER		\$8.00
COMM QRTERLY Winter98	THE "TEENY TWOER" AM TRANSCEIVER BY RICK LITTLEFIELD		\$13.50
COMM QRTERLY Winter98	NOR'EASTER 6 METER AM TRANSCEIVER BY RICK LITTLEFIELD		\$14.50
CQ Sep90	QRP-15 TRANSCEIVER		\$13.50
HR Jan89	NE602 QRP CW 20M XCEIVER		\$9.00
QEX Nov/Dec01	LASER TRANSCEIVER FOR THE ARRL 10GHz AND UP CONTEST	15.00	
QRPp	NORCAL SIERRA, MAIN BOARD AND FOUR SETS OF BAND PLUG	<b>DISCONTINUED</b>	\$33.00SET
QRPp	NORCAL SIERRA TRANSCEIVER, PLUG IN BAND BOARD ONLY	<b>DISCONTINUED</b>	\$4.50ea
QRPp Winter97	2N3 40 METER TRANSCEIVER BY WEBER (2 BOARD SET)		\$15.00
QRPp Winter97	TIXIE 2 WITH TIC KEYER		\$6.00
QRPp Mar96	EPIPHYTE 2 A TRANSCEIVER BY VE7QK		\$8.00
QRPp Mar96	EPIPHYTE 2B WITH FILTER BOARD (2 BD SET)		\$10.00
QRPp Mar95	VE7ZM SSB (CALIFORNIA BOARD) TRANSCEIVER (2 BD SET)		\$13.50
QRPp Nov&Dec94	EPIPHYTE TRANSCEIVER REC BD		\$8.50
QRPp Nov&Dec94	EPIPHYTE TRANSCEIVER TRANSMITTER BD		\$6.00
QRPp Nov&Dec94	EPIPHYTE TRANSCEIVER VFO BD		\$5.75
QRPp Sep94	NW8020 5W TRANSCEIVER BY W6EMT		\$14.00
QST May08	TAK-40 Transceiver, three board set		\$24.00
QST Dec02	NO EXCUSES QRP 40 M TRANSCEIVER BY K8JWR		\$13.50
QST Nov94	SINGLE BOARD SUPERHET QRP TRANSCEIVER 40M OR 30 M BY NN1G		\$7.00
QST Jun92/Mar95	UGLY WEEKENDER II (COMPLETE 3 BD SET)		\$12.50
QST Feb91	BP80 TRANSCEIVER (COMPLETE 4 BD SET)		\$31.00
QST Jan90	A SIMPLE 220 FM TRANSVERTER		\$9.75

## TRANSMITTERS

Publication	Reference Article	Price
73's Nov98	BUILD THE FOX TTL FOXHUNT TRANSMITTER BY DAVE PELAEZ	\$5.25
73's Oct94	QUICKIE CHEAPIE TENER 1W CW 10M TRANSMITTER BY VERONESE	\$4.25
73's Jul94	WORLD'S SMALLEST 10GHZ ATV TRANSMITTER (ON .031 TEFLON)	\$6.00
73's Apr93	TWO-FER TRANSMITTER	\$5.50
73's Jul92	10 METER DSB TRANSMITTER (3 BOARD SET)	\$15.00
73's Dec91	SIMPLE TXX	\$5.50
73's Jul91	MICRO ATV TRANSMITTER	\$4.50
73's Jun91	3 BAND QRP TX	\$5.50
73's May91	QRP TRANSMITTERS 'CBED'	\$5.50
73's May91	QRP TRANSMITTERS 'WB'	\$4.50
73's Apr91	QRP WB8VGE UNIVERSAL TRANSMITTER	\$7.00
73's Oct91	10 M SB TX (VFO)	\$5.50
73's Oct91	10 M SB TX (BALANCED MOD/MIXER)	\$8.00
73's Oct91	10 M SB TX (AMPLIFIER)	\$8.00
73's Aug90	LOW POWER TWO METER TRANSMITTER (2 BD SET)	\$8.75
73's Jul90	2 METER TRACKING TRANSMITTER	\$3.50
73's Nov87	QRP TWO FET TRANSMITTER	\$6.00
ARRL HB (88-91ONLY) CHP30 FIG.50A	TXO CONTROLLED CW TRANSMITTER 3.5 TO 21 MHZ	\$12.50
ARRL QRP CLASSICS	QRP OMNI BOX (QST 11/87)	\$7.00
ARRL QRP CLASSICS	TRANSMITTER DESIGN-EMPHASIS ON ANATOMY (QST 5/79): BD(A)	\$3.50
ARRL QRP CLASSICS	TRANSMITTER DESIGN-EMPHASIS ON ANATOMY (QST 5/79): BD(B)	\$5.25
ARRL QRP CLASSICS	TRANSMITTER DESIGN-EMPHASIS ON ANATOMY (QST 5/79): BDA	\$5.25
ARRL QRP CLASSICS	TRANSMITTER DESIGN-EMPHASIS ON ANATOMY (QST 5/79): BD(D)	\$4.50
ARRL QRP CLASSICS	TRANSMITTER DESIGN-EMPHASIS ON ANATOMY (QST 5/79): 10W PA	\$7.00
ARRL QRP CLASSICS	VXO CONTROLLED CW TRANSMITTER FOR 3.5 TO 21 (HB CH30-50)	\$12.50
ARRL QRP CLASSICS	FOUR WATT, QSK FOR 24.9 MHZ (QST 2/86)	\$9.00
ARRL QRP CLASSICS	TWO TRANSISTOR TRANSMITTER FOR 30 METERS (QST 2/84)	\$4.50
ARRL QRP CLASSICS	W7ZOI LITTLE JOE TRANSMITTER	\$4.50
ARRL W1FB QRP NOTEBOOK 1991	CHALLENGER TWO TRANSMITTER (FIG. 4-6)	\$4.50
ARRL W1FB QRP NOTEBOOK 1991	DELUXE 5 W QRP TRANSMITTER (FIG. 4-13)	\$8.00
ARRL W1FB QRP EX-1 .5W QRP TX/EXC (FIG. 4-10)		\$5.25
NOTEBOOK 1991 ARRL W1FB QRP NOTEBOOK 1991	PEBBLE CRUSHER TWO (FIG 4-8)	\$4.75

ARRL HANDBOOK 2010	MICRO T2 SSB TRANSMITTER BY CAMPBELL	\$11.50
COMM QUARTRLY Winter92	MC2833 FM TRANSMITTER BOARD AND MC3833	\$17.50
COMM QUARTRLY Winter91	1152 MHZ PHASE LOCK LOOP OSCILLATOR	\$10.50
CQ Jun03	PIXIE II KEYSER TRANSMITTER WITH SIDE TONE	\$7.00
CQ Feb97	WIFB QRP SIDE BAND GENERATOR	\$5.50
CQ Jul96	40 METER QRP TITAN BY W1FB	\$7.00
QEX May88	A 759 MHZ LOCAL OSC	\$16.50
QRPP Winter97	TIXIE 2 WITH TIC KEYSER	\$6.00
QRPP	NORCAL 49er BOARD	\$4.50
QRPP	NORCAL TUNA TIN 2 TRANSMITTER BY W1FB AND KI6DS	\$6.00
QST Mar 00	QRP 40 METER TUNA TIN 2 TRANSMITTER	\$6.00
QST Feb98	SIMPLE CW TRANSMITTER 80 AND 40 METERTWO IRF820 MOSFET BY KITCHINS (2 BD SET)	\$7.00
QST Mar90	MC2831 FM TRANSMITTER	\$5.50
QST Jun92	UGLY WEEKENDER II TRANSMITTER	\$6.00
QST Nov87	QRP OMNI BOX	\$7.00
FUN RADIO MAG Apr92	AM TRANSMITTER	\$4.50
MOTOROLA APP NOTE UHF FM/AM SINGLE CHIP TRANSMITTER USING THE MC13175/13176		\$6.50
KNIGHTLITE SmitE	TRANSMITTER	\$4.50

### VOICE, CW ID'ERS and CW ENCODERS & DECODERS

Publication	Reference Article	Price
73's Jul98	SIMPLE CW IDENTIFIER USING A 2716 EPROM BY GRAF AND SHEETS	\$6.00
73's Feb95	READING MORSE CODE ON YOUR PC BY KURTZ	\$4.50
73's Jun94	EDWARDS MORSE MESSENGER CW ID'ER	\$6.00
73's May94	WEBBER QRP KEYING	\$4.50
73's Mar94	FOXBOX VOICE ID'er (USES RADIO SHACK ISD1000 VOICE CHIP)	\$5.75
73's Dec87	VIC TALK	\$7.50
HR Mar90	DIGITAL VOICE STORAGE BOARD	\$16.50
QST MAR'05	MINIATURE UHF FOX VOICE ID TRANSMITTER USING ISD1420 IC BY K1FK	\$5.00
QST FEB05	MORSEMETER BY WD8DAS AND KA9DDZ WITH PROGRAMMED PIC	\$19.50
QST Mar 00	CHANEY QRSeR, A CW OPERATING AID	\$8.50
QST Aug04	THE CODE PLAYER BY W6BEG, P C BOARD FITS IN BOX SPECIFIED BY AUTHOR	\$4.50
QST Aug04	THE CODE PLAYER BY W6BEG, P C BOARD AND PROGRAMMED IC	\$20.50
QST Aug99	PIC16F84 BASED CW DECODER BY IK3OIL P C BOARD WITH PROGRAMMED PIC	\$21.50
QST Nov98	MICRO McELROY CW ENCODER READER BY KELLEY THREE BDS AND PROG 2716	\$24.00
QST Jan98	ANDING PIC CW IDER WITH PROGRAMMED PIC	\$14.00
QST Jan95	CW WITH YOUR PC BY TAGGART (ARRL HB 96)	\$6.00
QST Oct94	BUNN CW 'STAMP' IDENTIFIER	\$3.50
QST Jun88	REPLAY VOICE MESSAGE CENTER	\$9.75

### WATTMETER & SWR BRIDGES

Publication	Reference Article	Price
73's Nov94	KITCHEN AVERAGE AND PEAK POWER METER (SPECIFY BOARD FOR LM3916 OR NSM3916 IC)	\$5.50
ARRL HB CH34 FIG16	QRP DIRECTIONAL WATT METER	\$10.50
ARRL HB(88-91ONLY)	PEP WATT METER & SWR CALCULATOR (4 BD SET) (CHP34 FIG.27, 28, 29, AND 30)	\$31.00
ARRL HB CH34 FIG16A	SIMPLE AND ACCURATE QRP DIRECTIONAL WATTMETER (QST2/90)	\$6.00
ARRL QRP CLASSICS	THE SWR TWINS QRP AND QRO (QST 7/86) (2 BOARD SET)	\$8.00
ARRL W1FB DESIGN	RF POWER METER AND SWR BRIDGE (FIG 6-18)	\$6.00
NTBK 1990 HR Jun90	PHASOMETER PC BOARD	\$4.50
QRPP Sep95	401C DIRECTIONAL WATT METER BY JIM PEPPER	\$6.00
QST AUG'09	THE IGN SWITCH BY WA5LUY	\$5.00
QST Dec99	A PIC SWR METER BY BERT KELLY, (TWO BOARD SET, PROGRAMMED PIC, AND CRYSTAL)	\$26.00
QST Jun97	MICROWATTER BY K7OWJ FOR MEASURING 10nW TO 10uW OF POWER (BOARD ONLY)	\$6.00
QST Oct96	GADET SWR ADD ON ANALYZER	\$4.50
QST Jun96	SIMPLE LED SWR/POWER METER BY WA6IPD 2009 HANDBOOK p. 24.3	\$4.50
QST Jun95	BUILD SIMPLE LED SWR INDICATOR BY K1KP 2009 HANDBOOK p. 24.3	\$4.50
QST Jul94	SPENCER SWR DETECTOR AUDIO ADAPTER	\$4.50
QST Jan92	A FIELD STRENGTH METER WITH DB DISPLAY	\$ 7.00
QST Feb90	QRP DIRECTIONAL WATTMETER (ALL THE COMPONENTS LAID OUT ON THE BOARD)	\$6.00
QST May89	PRACTICAL TIME DOMAIN REFLECTOMETER	\$4.50
QST Dec87	VHF WATTMETER	\$5.75

**MISCELLANEOUS**

<b>Publication</b>	<b>Reference Article</b>	<b>Price</b>
	MODEL ROCKET ALTIMETER BOARD, DETAILS AT <a href="http://www.jbgimo.com/">http://www.jbgimo.com/</a>	\$4.50
73's Apr02	HAM WINDOW DRESSING BY RYNONE	\$7.00
73's Feb01	WAY COOL ROCKET PROJECT (2 BOARD SET)	\$12.50Set
73's Sep99	PORTABLE 2 METER J-POLE ANTENNA BY WA8TXT	\$4.00
73's Apr97	BUILD A COLLOIDAL SILVER GENERATOR BY TOM MILLER	\$4.50
73's Oct96	WAYNE'S COLUMN PG60 "PLANT STIMULATOR" BOARD USING TWO 4N38 IC'S	\$4.50
73's May96	BIOELECTIFIER PC BOARD BY THOMAS MILLER AND 4 OPTICAL COUPLERS	\$9.50
73's May96	PLANT GROWTH STIMULATOR BY THOMAS MILLER (USES 2 OPTICAL COUPLERS)	\$4.50
73's Jan96	TELEPHONE FLASHER	\$4.50
73's Jun94	ELKINS MOBILE ON ALARM/TIMER	\$4.00
73's Jul94	CARR'S UNIVERSAL WAVE TRAP	\$4.50
ARRL HB CHP31 FIG.2	TR TIME DELAY GENERATOR	\$6.75
ARRL HB 92-94 CHP23 FIG.43	DIGITAL TR SEQUENCER FOR SATELLITE(88-91 HB CHP23 FIG.26)	\$7.25
ARRL HB (88-91ONLY)	SPDT RF SWITCH (CHP32 FIG.65)	\$3.50
ARRL HB (88-91ONLY)	PIN DIODE TR SWITCH (CHP34 FIG.18) (2 BD SET)	\$17.50
ARRL QRP CLASSICS	SIMPLE QRP GEAR VERSUS GOOD PERFORMANCE (QST 1/85)	\$5.25
ARRL W1FB DESIGN	UNIVERSAL BREADBOARD (FIG 4-3 (1990 ED) & (W1FB QRP NOTEBOOK))	\$6.00
ARRL W1FB QRP NOTEBOOK 1991	S METER (FIG.3-17)	\$3.50
ELECTRONICS NOW Oct 98	ELECTRONIC WIND VANE, BY STEVE BOTTS	\$6.00
NOW Feb9ELECTRONICS	UNIVERSAL NE602 BOARD BY J. CARR	\$4.50
ELECTRONICS NOW Nov92	SUPER STROBE FOR CREATING STOP-ACTION PHOTOS	\$6.00
FUN RADIO MAGAZINE 92	SIMPLE LIGHT BASED TX/RX PAIR (2 BDS)	\$7.00
<b>Aug/Sep01 HOME POWER</b>	FLASHLIGHT TO LEDs BY JONES (COMPLETE KIT FOR CONVERTING A FLASH LITE INCLUDING OF RESISTORS, LEDS AND PC BOARD)	\$16.50
<b>JAMES JENNINGS</b>	BRAY BAROMETER v2	\$4.50
Nov99 NUTS & VOLTS	ROBBI'S VIOLIN/GUITAR TUNER BY FRUITMAN	\$6.00
Mar & Apr99 NUTS & VOLT	LIGHT METERS BY EVERT FRUITMAN, ANALOG OR DIGITAL BOARD VERSIONS	\$4.50ea
Oct97 NUTS&VOLTS	5 IC BREADBOARD (4-16 PIN IC & 1-40 PIN IC)	\$10.50
QST FEB '06	MORSE CODE TELEMETRY FOR SMALL ROCKETS AND AIRCRAFT 3 BD SET WITH PROGRAMMED PIC	\$16.00
QEX Jan/Feb 01	BUILD A DATA ACQUISITION SYSTEM FOR YOUR COMPUTER BY HAGEMAN	\$10.00
QEX JUL/AUG '04	DOUBLY BALANCED H-MODE MIXIER FOR HF BY CARTOCETI	\$7.50
QST JUNE 09	HOMEBREW RADIO TELESCOPE	\$6.00
QST APR '08	REPAIR AND UPGRADE LOW COST GEIGER COUNTERS BY CHARLES KITCHIN	\$4.50
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QST Apr02	A LIGHTNING DETECTOR FOR THE SHACK BY RADMORE	\$5.50
QST Aug00	AN INDOOR-OUTDOOR THERMOMETER BY KELLY (SEMI-KIT \$24.00)	\$6.00
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QST Nov98	CHANNEL WATCH, A MULTIPLE-FREQUENCY ACTIVITY MONITOR BY JOHN HANSEN	\$7.00
QST Oct98	USING PIC uP'S IN AMATEUR PROJECTS BY JOHN HANSEN USING THE PIC16F84	\$4.50
QST Feb95	RADIO OBSERVATIONS OF SOLAR ECLIPSES BY EMERSON	\$4.00
QST Jun94	KOLTS AUTO TEMP CONTROLLER FAN	\$4.25
QST Jun94	SCAR INTERFERENCE FILTER	\$13.50
QST Apr94	RINGMASTER RING DETECTOR	\$6.25
QST Sep92	3 SWITCH ATTN BOX	\$5.50
QST Sep92	8 SWITCH ATTN BOX WITH 8 SLID SWITCHS	\$12.00
QST Sep92	NEW HAM COMPANION IGN SWITCH CONTROL	\$5.25
QST Aug90	A TRIBAND MICROWAVE DISK FEED	\$8.50
QST Mar88	CORDLESS TELEPHONE LINK	\$6.50
QST Mar86	ROMSCANNER	\$7.50
QST Jan81	THE ARES STANDARD-TONE ALERT SYSTEM BY FRANK JAEGER , WA9SQN	\$3.50
	QRP MANHATTEN STYLE IC PADS 8 PIN 6/\$1.00 AND 14 OR 16 PIN 5/1.00 DIP OR SOIC	
	DAVE EK DIGITAL SETTING CIRCLES PROJECT. (BOARD , PROGRAMMED PIC, REF OSC, RS232 IC)	\$24.00
<b>GP-1 LIGHTING LOCATOR ( NINE BOARDS IN PROJECT)</b>		\$98.00.

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 MC13135P DIP IC \$9.00 EA  
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74HC4051 DIP High Speed CMOS Logic 8-Chan Analog Multi \$0.50  
4047BCP DIP Mono/Astable Multivi \$0.50  
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