

QRP Kit Matrix  
Bruce Muscolino W6TOY/3  
November 1, 1999

Model	Band	Size (inches)			Wt	Power Requirements			Pout	Basic Price \$	Tuning Range	Tuning Method	Mixer Type	Filter Poles	BW (Hz)	IF	RIT	QSK
		H	W	D		Volts	TX	RX										
<b>Elecraft</b>					<a href="http://www.elecraft.com">&lt;http://www.elecraft.com&gt;</a>					<b>See Note 1</b>								
K2	80-10	3	7.9	8.3	3.2 lb	9-15	1-2 A	120-280	0-15	549	Band	Synth	DBM	7	250-2000	4.915	Y	Y
<b>Emtech</b>					<a href="http://emtech.steadynet.com">&lt;http://emtech.steadynet.com&gt;</a>					<b>See Note 2</b>								
NW80	80	2.5	6.5	5.5	1.5 oz	11-13.8	1.2 A		6.2	80	250 kHz	Cap	NE602	4	150-1700	9.6	Y	Y
NW40	40	2.5	6.5	5.5	1.5 oz	11-13.8	1.2 A		6.2	80	200 kHz	Cap	NE602	4	150-1700	12	Y	Y
NW30	30	2.5	6.5	5.5	1.5 oz	11-13.8	1.2 A		6.2	80	135 kHz	Cap	NE602	4	150-1700	12	Y	Y
NW20	20	2.5	6.5	5.5	1.5 oz	11-13.8	1.2 A		6.2	80	70 kHz	Cap	NE602	4	150-1700	9.6	Y	Y
<b>JJA-Instruments</b>					<a href="http://www.jja-instruments.com/radio.html">&lt;http://www.jja-instruments.com/radio.html&gt;</a>					<b>See Note 3</b>								
Bobcat 80	75/80	2	3	8	3 lb	Internal	8 x AA			379	Band	Synth	DBM	n/a	Audio	n/a	N	Y
Bobcat 40	40	2	3	8	3 lb	Internal	8 x AA			379	Band	Synth	DBM	n/a	Audio	n/a	N	Y
<b>Oak Hills Research</b>					<a href="http://www.ohr.com">&lt;http://www.ohr.com&gt;</a>					<b>See Note 4</b>								
OHR500	80-15	4	8.3	8.3	3.8 lb	12-13.6	1 A		5	360	150 kHz	Cap	DBM	4	500	9	Y	Y
OHR100A	40	2.5	6	6	1.5 lb	12-13.6	1 A		5	130	70 kHz	Vcap	NE602	4	400-1200	9	Y	Y
OHR100A	30	2.5	6	6	1.5 lb	12-13.6	1 A		5	130	70 kHz	Vcap	NE602	4	400-1200	9	Y	Y
OHR100A	20	2.5	6	6	1.5 lb	12-13.6	1 A		5	130	70 kHz	Vcap	NE602	4	400-1200	9	Y	Y
<b>Red Hot Radio Kits</b>					<a href="http://www.redhotradio.com">&lt;http://www.redhotradio.com&gt;</a>					<b>See Note 5</b>								
RH-40	40	2.5	5	5	1.1 lb	10-14	0.6 A	160 mA	0-5	135	70 kHz	Vcap	TUF-1	4+1	300	9	Y	Y
RH-20	20	2.5	5	5	1.1 lb	10-14	0.6 A	160 mA	0-5	135	80 kHz	Vcap	TUF-1	4+1	300	9	Y	Y
<b>S&amp;S Engineering</b>					<a href="http://www.raven.metric.net/sseng">&lt;http://www.raven.metric.net/sseng&gt;</a>					<b>See Note 6</b>								
TAC 1-80	80	2.5	5.5	7.5	2 lb	12-14	1.1 A			200	250 kHz	Synth	NE602	4			Y	Y
TAC 1-40	40	2.5	5.5	7.5	2 lb	12-14	1.1 A			200	200 kHz	Synth	NE602	4			Y	Y
ARK-40	40	2.75	5.5	8	3 lb	12-14	1.1 A	400 mA	3-4	270	150 kHz	Synth	DBM	4	600		Y	Y
ARK-30	30	2.75	5.5	8	3 lb	12-14	1.1 A	400 mA	3-4	270	150 kHz	Synth	DBM	4	600		Y	Y
ARK-20	20	2.75	5.5	8	3 lb	12-14	1.1 A	400 mA	3-4	270	150 kHz	Synth	DBM	4	600		Y	Y

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		H	W	D		Volts	TX	RCV										
<b>Small Wonder Labs</b>					<a href="http://www.smallwonderlabs.com">http://www.smallwonderlabs.com</a>					<b>See Note 7</b>								
SW80+	80	2	4.1	4	12 oz	10-15	0.4 A		2.5	55	40 kHz	Vcap	SA602A	3	600	8	O	Y
SW40+	40	2	4.1	4	12 oz	10-15	0.4 A		2.5	55	40 kHz	Vcap	SA602A	3	600	4	O	Y
SW30+	30	2	4.1	4	12 oz	10-15	0.4 A		2.5	55	40 kHz	Vcap	SA602A	3	600	7.68	O	Y
SW20+	20	2	4.1	4	12 oz	10-15	0.4 A		2.5	55	40 kHz	Vcap	SA602A	3	600	9	O	Y
DSW80	80	1.3	4.3	4.3	9.8 oz	8-15	0.4 A		2	99	Band	Synth	SA602A	3	500	5.185	Y	Y
DSW40	40	1.3	4.3	4.3	9.8 oz	8-15	0.4 A		2	99	Band	Synth	SA602A	3	500	4	Y	Y
DSW30	30	1.3	4.3	4.3	9.8 oz	8-15	0.4 A		2	99	Band	Synth	SA602A	3	500	4	Y	Y
DSW20	20	1.3	4.3	4.3	9.8 oz	8-15	0.4 A		2	99	Band	Synth	SA602A	3	500	5.185	Y	Y
WM75	75	1.5	5.6	5	1.9 lb	12-14	1 A		3-4	100	180 kHz	Vcap	TUF-1	4	2.3	9.83	N	SSB
WM40	40	1.5	5.6	5	1.9 lb	12-14	1 A		3-4	100	100 kHz	Vcap	TUF-1	4	2.3	9.83	N	SSB
WM20	20	1.5	5.6	5	1.9 lb	12-14	1 A		3-4	100	180 kHz	Vcap	TUF-1	4	2.3	8	N	SSB
<b>Ten-Tec</b>					<a href="http://www.tentec.com">http://www.tentec.com</a>					<b>See Note 8</b>								
1340	40	2.75	6	6	2.3 lb	12-14	0.8 A	80 mA	3	95	50 kHz	Vcap	DBM	4	1000	11	Y	Y
1330	30	2.75	6	6	2.3 lb	12-14	0.8 A	80 mA	3	95	50 kHz	Vcap	DBM	4	1000	14.32	Y	Y
1320	30	2.75	6	6	2.3 lb	12-14	0.8 A	80 mA	3	95	50 kHz	Vcap	DBM	4	1000	6.14	Y	Y
<b>Wilderness Radio</b>					<a href="http://www.fix.net~jparker/wildernessradio">http://www.fix.net~jparker/wildernessradio</a>					<b>See Note 9</b>								
Norcal 40a	40	2.25	4.5	4.5	15 oz	9.5-14	0.2-0.3 A	17 mA	3	130	40 kHz	Vcap	NE602	4	350	4.915	Y	Y
SST40	40	1.5	3.2	3.5	7 oz	9-16	0.2-0.3 A	15 mA	2	85	20 kHz	Vcap	NE602	3	350	4	N	Y
SST30	30	1.5	3.2	3.5	7 oz	9-16	0.2-0.3 A	15 mA	2	85	20 kHz	Vcap	NE602	3	350	4.194	N	Y
SST20	20	1.5	3.2	3.5	7 oz	9-16	0.2-0.3 A	15 mA	2	85	20 kHz	Vcap	NE602	3	350	3.932	N	Y
Sierra	All	2.8	6.6	7	2 lb	9-16	0.2-0.3 A	35 mA	1.5-3	215	150 kHz	Cap	NE602	5 w/ABX	150-1500	4.915	Y	Y
<b>Sierra Radio Enterprises</b>					<a href="http://www.halted.com">http://www.halted.com</a>					<b>See Note 10</b>								
MN9	All	3.5	10	7.5	4 lb	12	2.8A	140 mA	12	469	Band	Cap	SBL-1		2500			Y

## QRP Matrix Notes:

- 1 Elecraft  
PO Box 69  
Aptos, CA 95001-0069  
Phone: 831-662-8345  
Fax: 831-662-0830  
[radios@elecraft.com](mailto:radios@elecraft.com)  
<http://www.elecraft.com/>

160 meters requires optional accessory (see below).  
Maximum power output varies with band and supply voltage.  
Minimum power output is at least 10 W at 14 V.  
SSB adapter includes optimized 7-pole, 2.2-kHz filter.

### **Accessories: (available now)**

Internal 3AH Gel Cell  
SSB Adapter  
Noise Blanker  
160 Meter Adapter with antenna switch  
Automatic Antenna Tuner

### **Planned Accessories:**

Host I/O Adapter  
100-W PA  
External speaker/power supply  
Audio filter

- 2 Emtech  
1127 Poindexter Ave West  
Bremerton, WA 98321  
Phone: 360-405-6805  
[emtech@steadynet.com](mailto:emtech@steadynet.com)  
<http://emtech.steadynet.com/>

Weight reflects use of optional enclosure kit and audio filter.  
Current drain shown at 5 W output.  
Complete kit, including enclosure, audio filter, and shipping, is \$130.  
All kits cover the complete band, including Novice band where applicable.

### **Accessories:**

Enclosure kit  
Audio filter  
Keyer kit

## QRP Matrix Notes:

- 3 JJ&A Instruments  
PO Box 234  
Duvall, WA 98019  
Phone: 425-788-0779  
[W7LS@accutek.net](mailto:W7LS@accutek.net)  
<http://www.jja-instruments.com/radio.html>

All radios are sold completely assembled--not available in kit form.  
Radios include antenna and carrying case.

- 4 Oak Hills Research  
2460 Moline Way  
Aurora, CO 80111  
Orders: 800-238-8205  
Phone: 303-752-3382  
Fax: 303-745-6792  
[qrp@ohr.com](mailto:qrp@ohr.com)  
<http://www.ohr.com/>

All Oak Hills Research kits are complete with screen printed enclosures and hardware.  
OHR500 has front panel adjustable output power of 0 to full power.  
OHR100A has rear-mounted power adjustment of 0 to 5 W.  
A **LO** output jack is standard on all Oak Hills Research kits.

### Accessories:

Electronic keyers: OHR500, \$39.95; OHR100A, \$29.95  
Digital dial/frequency counter, \$79.95  
Wattmeter, 100 mW / 1 W / 10 W, \$89.95

- 5 Red Hot Radio  
1717 Andover Ln  
San Jose, CA 95124-4744  
<http://www.redhotradio.com>

All Red Hot Radio kits are supplied complete

## QRP Matrix Notes:

- 6 S&S Engineering  
14102 Brown Road  
Smithsburg, MD 21783  
Phone: 301-416-0661  
Fax: 301-416-0963  
[n3sad@aol.com](mailto:n3sad@aol.com)  
<http://www.xmetric.com/sseng/>

All S&S Engineering kits are guaranteed to work or they will fix them.  
Charges are \$29.5 for the TAC series and \$25.00 for the ARK series.

TAC-1 series: Knob tuned (digital encoder); all parts are PC-board mounted; a single ribbon cable connects the two boards.

ARK series: All coils and transformers pre-wound; tilt-up padded steel handle; PC Board has breadboard area. All kits are complete including custom extruded aluminum enclosures.

### Accessories:

TAC-1 series: Keyer kit, \$29.95 ordered with radio, \$39.99 ordered separately.

ARK series: No accessories available.

- 7 Small Wonder Labs  
80 East Robbins St  
Newington, CT 06111  
Phone: 860-667-3536  
[dave@smallwonderlabs.com](mailto:dave@smallwonderlabs.com)  
<http://smallwonderlabs.com/>

All dimensions shown reflect the optional enclosure kits. Shipping and handling is for US and Canada.

### Accessories:

SW series kits: Enclosure \$35 plus \$3 shipping

WM series kits: Enclosure \$60 plus \$4 shipping

DSW series kits: Enclosure is \$35 plus \$3 shipping

- 8 Ten-Tec Corporation  
1185 Dolly Parton Pkwy  
Sevierville, TN 37862  
Phone: 423-453-7172  
Repairs: 423-428-0364 (Repairs)  
Fax: 423-428-4483  
[sales@tentec.com](mailto:sales@tentec.com)  
<http://www.tentec.com/>

**Accessories:** None

All kits are complete; all kits have a built-in speaker.

## QRP Matrix Notes:

- 9 Wilderness Radio  
PO Box 734  
Los Altos, CA 94023-0734  
Phone: 650-494-3806

[qrpbob@datamers.com](mailto:qrpbob@datamers.com)  
<http://www.fix.net/jparker/wild.html>

Shipping is extra: NC40A, \$5 US, \$10 Canada, \$18 DX; SST: \$3 US, \$5 Canada and Mexico, \$15 DX;  
Sierra: \$7 US, \$12 Canada and Mexico, \$20 DX.

### Accessories:

NC40A: KC-1 keyer/counter kit.

SST: KC-1 keyer/counter kit; "Buzz-Not" noise blanker.

Sierra: KC-2 keyer/counter kit; wattmeter; S meter w/ LCD display; "Buzz-Not" noise blanker.

- 10 Sierra Radio Enterprises  
PO Box 8073  
Reno, NV 89507

Sold by HSC Electronic Supply Company

Tech support: [frans@w6mn.reno.nv.us](mailto:frans@w6mn.reno.nv.us)

### Accessories:

None