

Feedback

In “Hands-On Radio, Experiment #21: The L-Network” [Oct 2004, p 63] the reactance-canceling inductance in the design example should be 0.11 μH , not 0.32 μH , as printed. This is the correct value for 28 MHz. Thanks to Keith, KB9WMJ, for pointing it out.

The W1AW Qualifying Runs published in the October 2004 issue [p 98] actually cover the September dates. The text should have read: “W1AW Qualifying Runs are 10 PM EDT Monday, October 4 (0200Z October 5), and 4 PM EDT Wednesday, October 20 (2000Z October 20). The K6YR West Coast Qualifying Run will be 9 PM PDT Wednesday, October 13 (0400Z October 14) (40-10 WPM).” You can also find the Qualifying Runs schedule on the ARRLWeb at www.arrl.org/w1aw.html#qualifying_run.

In the Product Review of “The Elecraft XV144 2 Meter Transverter Kit” [Oct 2004, p 68], the Elecraft K2 was referred to as a 5 W transceiver. It actually is specified as running up to 10 W output.

VHF/UHF Propagation—A Practical Guide for Radio Amateurs, by Ken Neubeck, WB2AMU, and Gordon West, WB6NOA [New Products, Oct 2004, p 95], is also available from the ARRL Bookstore; order no. 9428; \$15.95 plus shipping. Telephone toll free in the US 888-277-5289, or 860-594-0355; www.arrl.org/shop/; pubsales@arrl.org.

Feedback—A New Generation of Balanced Antenna Tuners

In the Product Review of “A New Generation of Balanced Antenna Tuners” [Sep 2004, pp 60-66], some errors crept in while translating the tables from the earlier article by Frank Witt, AI1H. In both Tables 4 and 5, in the load column, change 6.25 to 12.5, 12.5 to 25 and 25 to 50. In Table 4 in the SWR 1:1 row, under 15 Meters, change the power loss from <10% to 11%. In Table 5, in the top 4:1 row, change the cell under 15 Meters from No Match to 15, 1 and 0. In the same row under 10 Meters, change the cell from No Match to <10, 3 and 0.

You can find the corrected tables below:

Table 4

E. F. Johnson 275 W Matchbox, Balanced Antenna Tuner

Manufacturer's Specifications

Input load range: 25 to 1250 Ω .

Output SWR range: not specified.

Frequency coverage: 80, 40, 20, 15 and 10 meters

Input power: 275 W dc input.

Size: 7 × 10 × 10.5 inches (HWD).

Measured in ARRL Lab

See below.

See below.

See below.

Not tested.

SWR	Load (Ω)	Band:	80 Meters	40 Meters	20 Meters	15 Meters	10 Meters
4:1	12.5	Power Loss %					
		SWR BW %	No Match	No Match	No Match	No Match	No Match
		Imbalance					
2:1	25	Power Loss %				<10	<10
		SWR BW %	No Match	No Match	No Match	4	4
		Imbalance				0	0
1:1	50	Power Loss %	<10		<10	<10	<10
		SWR BW %	2	No Match	>5	>5	3
		Imbalance	0		0	0	0
2:1	100	Power Loss %	<10	<10	12	11	<10
		SWR BW %	2	4	>5	>5	3
		Imbalance	0	0	0	0	0
4:1	200	Power Loss %	11	<10	<10	<10	11
		SWR BW %	2	4	>5	>5	3
		Imbalance	0	0	0	0	0
8:1	400	Power Loss %	12	<10	<10	<10	11
		SWR BW %	2	4	>5	>5	3
		Imbalance	0	0	0	0	0
16:1	800	Power Loss %	10	<10	<10	<10	11
		SWR BW %	2	4	>5	>5	3
		Imbalance	0	0	0	0	0
32:1	1600	Power Loss %	10	<10			
		SWR BW %	2	4	No Match	No Match	No Match
		Imbalance	0	0			
64:1	3200	Power Loss %	10				
		SWR BW %	2	No Match			
		Imbalance	0				

Notes

Power losses are expressed as a percentage. A 10% power loss represents less than half (0.46) a dB.

The SWR bandwidth is the percentage of the measurement frequency that can be changed with the SWR staying under 1.5:1.

Table 5

E. F. Johnson kW Matchbox, Balanced Antenna Tuner

Manufacturer's Specifications

Input load range: 50 to 2000 Ω.
 Output SWR range: not specified.
 Frequency coverage: 80, 40, 20, 15 and 10 meters
 Input power: 1000 W dc input.
 Size: 12.5 × 17.25 × 11 inches (HWD).

Measured in ARRL Lab

See below.
 See below.
 See below.
 Not tested.

SWR	Load (Ω)	Band:	80 Meters	40 Meters	20 Meters	15 Meters	10 Meters
4:1	12.5	Power Loss %				15	<10
		SWR BW %	No Match	No Match	No Match	1	3
		Imbalance				0	0
2:1	25	Power Loss %			<10	13	<10
		SWR BW %	No Match	No Match	2	2	4
		Imbalance			0	0	0
1:1	50	Power Loss %		<10	<10	<10	<10
		SWR BW %	No Match	2	2	2	4
		Imbalance		0	0	0	0
2:1	100	Power Loss %	<10	<10	<10	<10	<10
		SWR BW %	1	2	2	2	4
		Imbalance	0	0	0	0	0
4:1	200	Power Loss %	<10	<10	11	<10	<10
		SWR BW %	1	2	2	2	4
		Imbalance	0	0	0	0	0
8:1	400	Power Loss %	<10	<10	<10	14	11
		SWR BW %	1	2	2	2	4
		Imbalance	0	0	0	0	0
16:1	800	Power Loss %	10	<10	<10	11	11
		SWR BW %	1	3	2	2	4
		Imbalance	0	0	0	0	0
32:1	1600	Power Loss %	10	<10	<10		
		SWR BW %	1	2	2	No Match	No Match
		Imbalance	0	0	0		
64:1	3200	Power Loss %	10				
		SWR BW %	2	No Match	No Match	No Match	No Match
		Imbalance	0				

Notes

Power losses are expressed as a percentage. A 10% power loss represents less than half (0.46) a dB.

The SWR bandwidth is the percentage of the measurement frequency that can be changed with the SWR staying under 1.5:1.