

**70V Audio Line Transformer as valve output transformer**

<b>Speaker Z =</b>	8
<b>Line voltage =</b>	70

Transformer	Output W @8 ohm	Vo	Turns ratio	Z ratio	Zin (Ohms)
Hammond 117F4	0.25	1.41	49.5	2450.0	19600.00
&	0.50	2.00	35.0	1225.0	9800.00
Quam TBL70 4W	1.00	2.83	24.7	612.5	4900.00
(Parts Express)	2.00	4.00	17.5	306.3	2450.00
	4.00	5.66	12.4	153.1	1225.00
Quam TBLU 5W	0.3125	1.58	44.3	1960.00	15680.00
(70 V taps)	0.625	2.24	31.3	980.00	7840.00
	1.25	3.16	22.1	490.00	3920.00
	2.5	4.47	15.7	245.00	1960.00
	5	6.32	11.1	122.50	980.00

Transformer	Output W @ 8 ohm	Vo	Turns ratio	Z ratio	Zin (Ohms)
Quam TBLU 5W	0.3125	1.58	15.8	250.0	2000
(25 V taps)	0.625	2.24	11.2	125.0	1000
	1.25	3.16	7.9	62.5	500
	2.5	4.47	5.6	31.3	250
	5	6.32	4.0	15.6	125

Notes:

Quam TCH70 10W has 0.625W tap and 2.5W tap, usable as 7.84 kilo ohms p-p.  
Also "extended frequency response".

Notes:

Parts Express 10W part # 300-040 has same taps as Quam TCH70 above

Quam TCH70 10W	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
and	0.625	2.24	31.3	980	7840
Parts Exp. 300-040	1.25	3.16	22.1	490	3920
	2.5	4.47	15.7	245	1960
	5	6.32	11.1	122.5	980
	10	8.94	7.8	61.25	490

Parts Express 15W	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
Part # 300-039	5.00	6.32	11.1	122.5	980.00
	7.50	7.75	9.0	81.7	653.33
	10.00	8.94	7.8	61.3	490.00
	15.00	10.95	6.4	40.8	326.67

Possible use single-ended with 50C5 or similar low Zload tube? Good freq. response specs.

Sheet1

Atlas Sound T-20	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
20W line Tx	1.9	3.9	18.0	324.1	2592.6
60 Hz – 20 kHz	3.7	5.4	12.9	165.5	1324.3
	7.5	7.7	9.0	81.7	653.3
	15.0	11.0	6.4	40.8	326.7
	30.0	15.5	4.5	20.4	163.3

Atlas Sound T-10	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
10 W line Tx	0.65	2.28	30.7	942.3	7538.5
60 Hz – 20 kHz	1.25	3.16	22.1	490.0	3920.0
+/- 1.5 dB	2.5	4.47	15.7	245.0	1960.0
	5	6.32	11.1	122.5	980.0
	7.5	7.75	9.0	81.7	653.3
	15	10.95	6.4	40.8	326.7

Galaxy Audio	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
THSPM100	1.56	3.53	19.8	392.6	3141
100W max	3.13	5.00	14.0	196.0	1568
(Yeah, right!)	6.25	7.07	9.9	98.0	784
	12.50	10.00	7.0	49.0	392
	25.00	14.14	4.9	24.5	196
	50.00	20.00	3.5	12.3	98
	100.00	28.28	2.5	6.1	49