

70V Audio Line Transformer as valve output transformer

Speaker Z = 8
Line voltage = 70

Transformer	Output W@8 ohm	Vo	Turns ratio	Z ratio	Zin (Ohms)
Hammond 117F4	0.25	1.41	49.50	2450.00	19600.00
&	0.50	2.00	35.00	1225.00	9800.00
Quam TBL70 4W	1.00	2.83	24.75	612.50	4900.00
(Parts Express)	2.00	4.00	17.50	306.25	2450.00
	4.00	5.66	12.37	153.13	1225.00
Quam TBLU 5W	0.3125	1.58	44.27	1960.00	15680.00
	0.625	2.24	31.30	980.00	7840.00
	1.25	3.16	22.14	490.00	3920.00
	2.5	4.47	15.65	245.00	1960.00
	5	6.32	11.07	122.50	980.00

Notes:

Quam TCH70 10W has 0.625W tap and 2.5W tap, usable as 7.84 kilo ohms p-p; extended freq resp
 Parts Express 10W part # 300-040 has same taps as above

Quam TCH70 10W	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
and	0.625	2.24	31.30	980	7840
Parts Exp. 300-040	1.25	3.16	22.14	490	3920
	2.5	4.47	15.65	245	1960
	5	6.32	11.07	122.5	980
	10	8.94	7.83	61.25	490

Parts Express 15W	Output W @ 8 ohm	Vout	Turns ratio	Z ratio	Zin (Ohms)
Part # 300-039	5.00	6.32	11.07	122.50	980.00
	7.50	7.75	9.04	81.67	653.33
	10.00	8.94	7.83	61.25	490.00
	15.00	10.95	6.39	40.83	326.67

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

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)
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Sheet1

10 W line Tx	0.65	2.28	30.70	942.31	7538.46
60 Hz – 20 kHz	1.25	3.16	22.14	490.00	3920.00
+/- 1.5 dB	2.5	4.47	15.65	245.00	1960.00
	5	6.32	11.07	122.50	980.00
	7.5	7.75	9.04	81.67	653.33
	15	10.95	6.39	40.83	326.67

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