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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Tube Output (10 - 280 Watts) Easy Wire Secondary 1608A-1650A

Series

Push-Pull - HI-FI







#### **Features**

- NEW & improved version of our 1608-1650 Series multiple secondary output transformers (re-designed secondaries for easy hook-up of secondary loads).
- Designed for push-pull tube output circuits.
- Units are designed to provide ample "headroom" at bass frequencies (note the weight of each transformer).
- All models have a secondary tapped for 4, 8 or 16 ohm outputs.
- Enclosed (shielded), 4 slot, above chassis Type "X" mounting.
- Manufactured with plastic coil forms for coil support and insulation.
- Frequency response 30 Hz. to 30 Khz. at full rated power (+/- 1 db max. ref. 1 Khz) minimum.
- Insulated flexible leads 8" min.
- All units (except the 1650G) include 40% screen taps for Ultra-Linear operation (if desired).
- Typical applications Push-Pull: triode, Ultra-Linear pentode, pentode and tetrode connected audio output. The 1650G does NOT have primary screen taps and will not support "Ultra-Linear" applications.

### **Gallery**











	Audio	Primary	Maximum	Secondary	Dimensions						
	Watts	Impedance	DC	Impedance					E	G	Weight
Part No.	(RMS)	(Ohms)	Per Side	(Ohms)	A	В	C	D	+/- 1/16"	Slot	(lbs.)
1608A	10	8,000 ct	100 ma.	4-8-16	2.50	2.75	3.06	2.00	1.69	0.20 x 0.38	2.5
1609A	10	10,000 ct	100 ma.	4-8-16	2.50	2.75	3.06	2.00	1.69	0.20 x 0.38	2.5
1615A	15	5,000 ct	100 ma.	4-8-16	2.50	3.25	3.06	2.00	2.19	0.20 x 0.38	3.25
1650E	15	8,000 ct	100 ma.	4-8-16	2.50	3.25	3.06	2.00	2.50	0.20 x 0.38	3.5
1620A	20	6,600 ct	158 ma.	4-8-16	2.50	3.50	3.06	2.00	2.44	0.20 x 0.38	3.5
1650FA	25	7,600 ct	128 ma.	4-8-16	2.50	3.50	3.06	2.00	2.44	0.20 x 0.38	4
1645A	30	5,000 ct	128 ma.	4-8-16-70V	2.50	3.75	3.06	2.00	2.69	0.20 x 0.38	4.5
1650G	35	6,600 ct	200 ma.	3.5/8/16/250/500	3.13	3.75	3.81	2.50	2.25	0.20 x 0.38	5
1650HA	40	6,600 ct	200 ma.	4-8-16	3.13	4.00	3.81	2.50	2.69	0.20 x 0.38	6.5
1650KA	50	3,400 ct	318 ma.	4-8-16	3.13	4.00	3.81	2.50	2.69	0.20 x 0.38	7
1650NA	60	4,300 ct	318 ma.	4-8-16	3.13	4.25	3.81	2.50	2.94	0.20 x 0.38	8
1650PA	60	6,600 ct	200 ma.	4-8-16	3.13	4.25	3.81	2.50	2.94	0.20 x 0.38	8
1650RA	100	5,000 ct	318 ma.	4-8-16	3.75	4.25	4.56	3.00	3.06	0.20 x 0.38	12

	Audio	Primary	Maximum	Secondary	Dimensions						
	Watts	Impedance	DC	Impedance					E	G	Weight
Part No.	(RMS)	(Ohms)	Per Side	(Ohms)	A	В	C	D	+/- 1/16"	Slot	(lbs.)
1650TA	120	1,900 ct	403 ma.	4-8-16	3.75	4.50	4.56	3.00	3.31	0.20 x 0.38	14
1650WA	280	1,900 ct	806 ma.	4-8-16	4.38	7.50	5.25	3.50	5.88	0.20 x 0.38	28

## **Suggested Tube Types**

	Audio	Primary		
Part No.	Watts (R.M.S.)	Impedance (Ohms)	Operation	Suggested Tube Types
Part No.	(K.M.S.)	(OIIIIIS)	Орегации	Suggested Tube Types
1608A	10	8,000 ct	Push-Pull (2 Tubes)	6AQ5, 6V6, 6BQ5, EL84, SV83
1609A	10	10,000 ct	Push-Pull (2 Tubes)	6AQ5, 6V6, 6BQ5, EL84, SV83
1615A	15	5,000 ct	Push-Pull (2 Tubes)	2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6
1650E	15	8,000 ct	Push-Pull (2 Tubes)	6AQ5, 6V6, 6BQ5, EL84, SV83
1620A	20	6,600 ct	Push-Pull (2 Tubes)	6AQ5, 6L6, 6V6
1650FA	25	7,600 ct	Push-Pull (2 Tubes)	6L6GC, 6V6, 807, 5881, EL34
1645A	30	5,000 ct	Push-Pull (2 Tubes)	6L6GC, 6V6, 807, 5881, EL34
1650G	35	6,600 ct	Push-Pull (2 Tubes)	6L6GC, 807, 5881, EL34
1650HA	40	6,600 ct	Push-Pull (2 Tubes)	6L6GC, 807, 5881, EL34
1650KA	50	3,400 ct	Push-Pull Par. (4 Tubes)	6L6GC, 807, 5881, EL34, 6146B, 6550B
1650NA	60	4,300 ct	Push-Pull Par. (2 or 4 Tubes)	6L6GC, 807, 5881, EL34, 6146B, 6550B, KT88
1650PA	60	6,600 ct	Push-Pull (2 Tubes)	6L6GC, 807, 5881, EL34, 6146B, 6550B, KT88
1650RA	100	5,000 ct	Push-Pull Par. (2 or 4 Tubes)	807, 5881, EL34, 6146B, 6550B, KT88
1650TA	120	1,900 ct	Push-Pull Par. (4 or 6 Tubes)	6L6GC, 5881, EL34, 6550B, KT88
1650WA	280	1,900 ct	Push-Pull Par. (6 or 8 Tubes)	6L6GC, 5881, EL34, 6550B, KT88

**Notes:** The above examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube types. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, class, B+, bias, operating points, etc.) will change optimum plate to plate load impedance. Only a few of the most popular tubes are shown. As more tubes become available we will add them to the list. A tube manual or tube manufacturer's technical data sheets should be consulted first, before making a decision on a proper output transformer.

Data subject to change without notice

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