Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

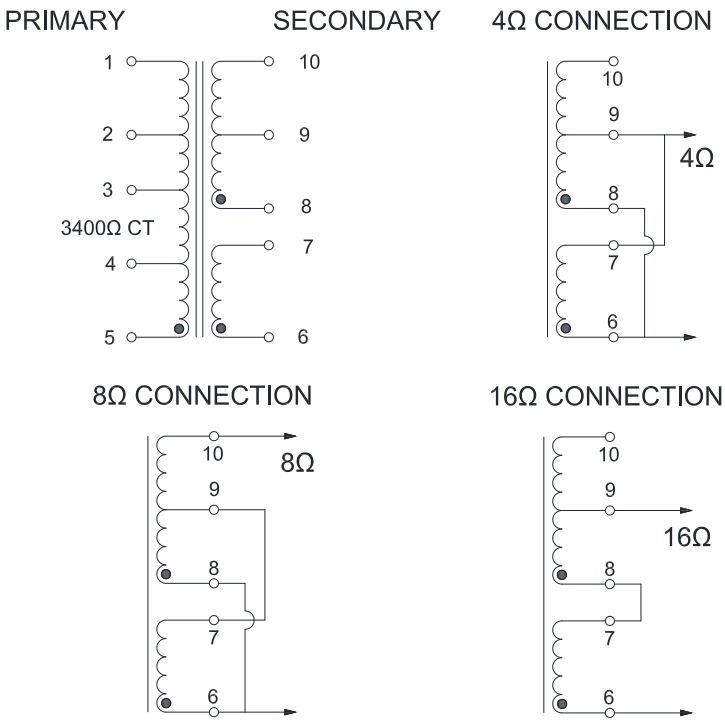
1650KP

"CLASSIC" PUSH-PULL TUBE TYPE
ULTRA-LINEAR POTTED OUTPUT TRANSFORMERS

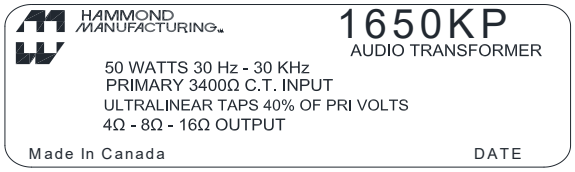
- Designed for push-pull tube output circuits.
- Enclosed in a drawn steel case, the transformer is completely potted in epoxy and painted in black powder paint to match our potted power transformers & potted chokes.
- Frequency response 30 Hz. to 30 Khz. at full rated power (+/- 1 db max. ref. 1 Khz) minimum.
- Lead connection is via 10 bottom mounted lugs.
- Includes 40% screen taps for Ultra-Linear operation if desired.
- Typical applications Push-Pull: triode, Ultra-Linear pentode, and tetrode connected audio output**.**
- Suggested tube types: 6L6GC, 807, 5881, EL34, 6146B, 6550B

ELECTRICAL SPECIFICATIONS		
Characteristic	**Typical**	
Input Impedance	3400 Ohms	
Output Impedance	4, 8 & 16 Ohms	
Output Power	50 Watts	
DCR		
Primary 1 - 5	72.50 Ohms	
Secondary 6 - 7	0.290 Ohm	
Secondary 8 - 10	0.480 Ohm	
Inductance | Impedance	@ 60Hz, 10.0V OC	
Primary 1 - 5	29.80H	12.58KOhm
Leakage Inductance	@ 60Hz, 10.0V SC	
Primary Blue-Brown	10.32mH	
Dielectric Strength	2000Vrms	
Temperature Range	-40 To 105°C	

SCHEMATIC

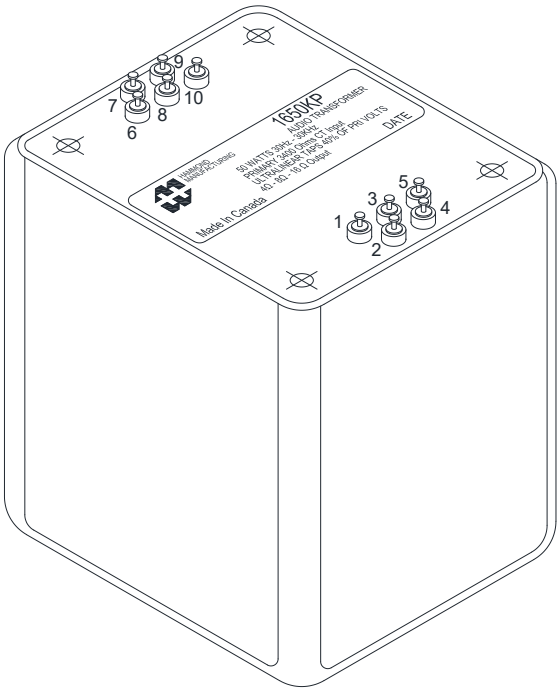


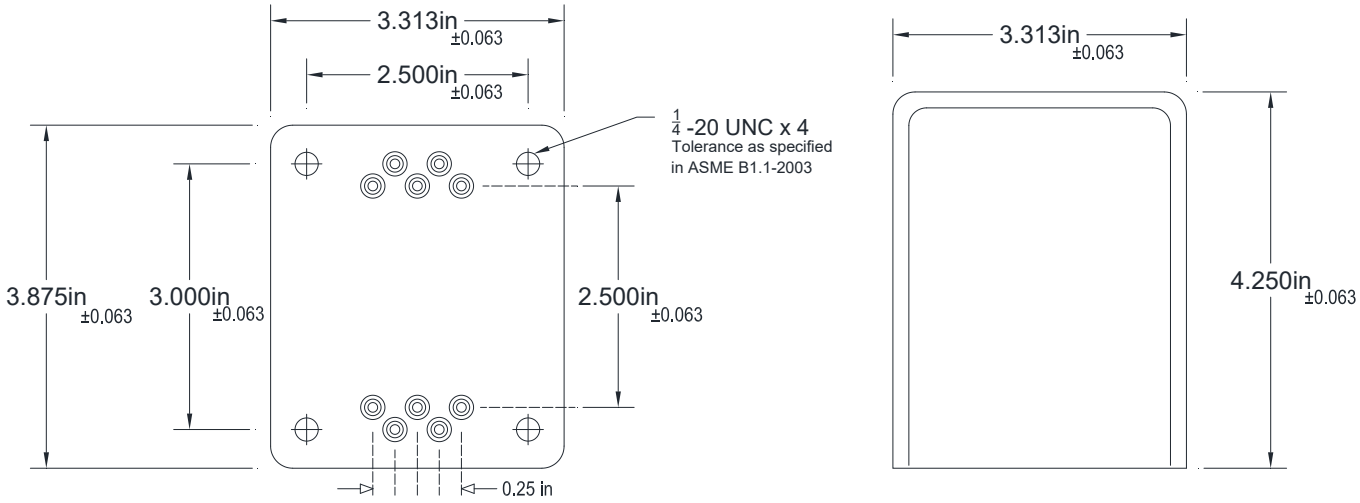
LABEL:



Note: 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.

DIMENSIONAL DETAILS:



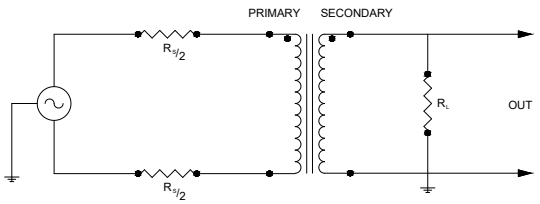


TEST CONDITIONS

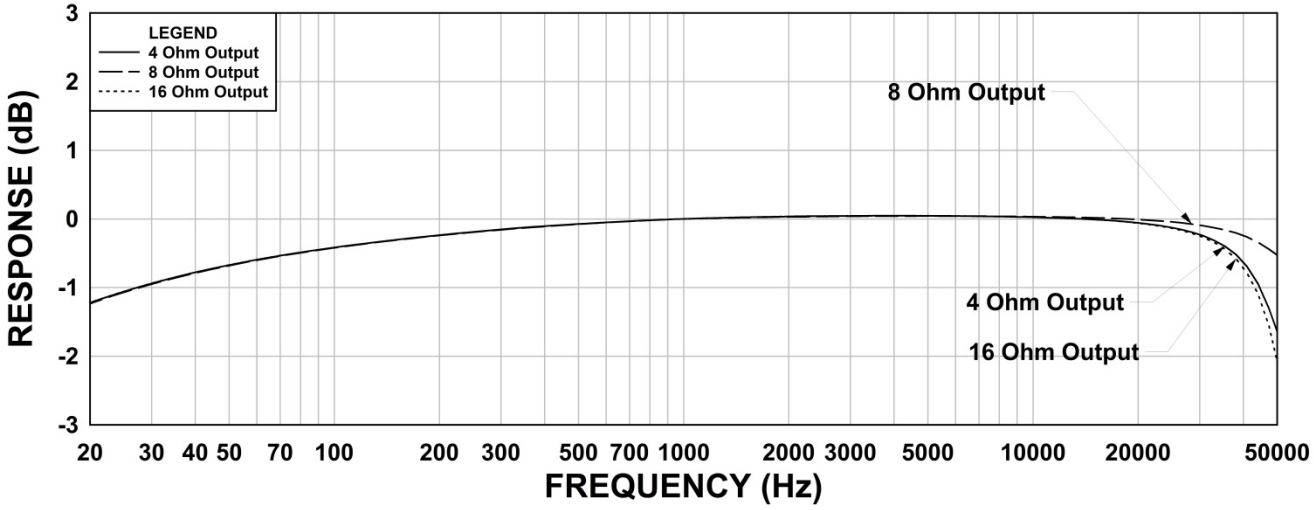
Measurement Instruments:
- dScope Series III Audio Analyzer
- Wayne Kerr 3255B with a 3265B Inductance Analyzer
- HP 4192a LF Impedance Analyzer
- Keithley 2010 DVM

* All graphs input level 27dBu @1.0KHz reference.
**The results are typical and are subject to normal manufacturing and electrical tolerances.

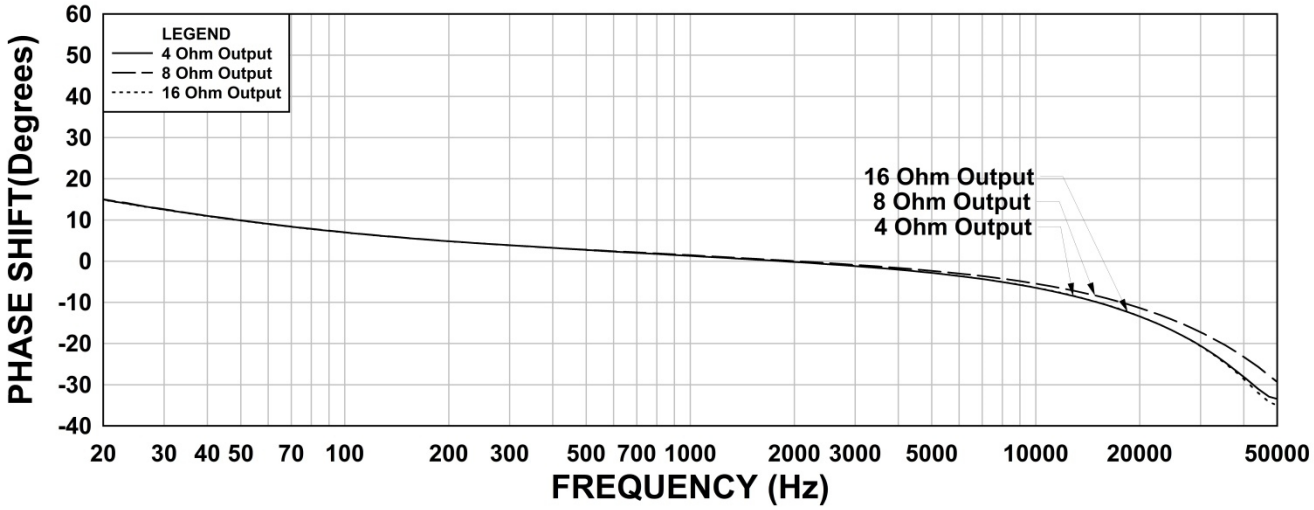
TYPICAL TEST CIRCUIT



1650KP Frequency Response RS = 3600 Ohms



1650KP Phase Shift RS = 3600 Ohms



1650KP THD+N RS = 3600 Ohms