

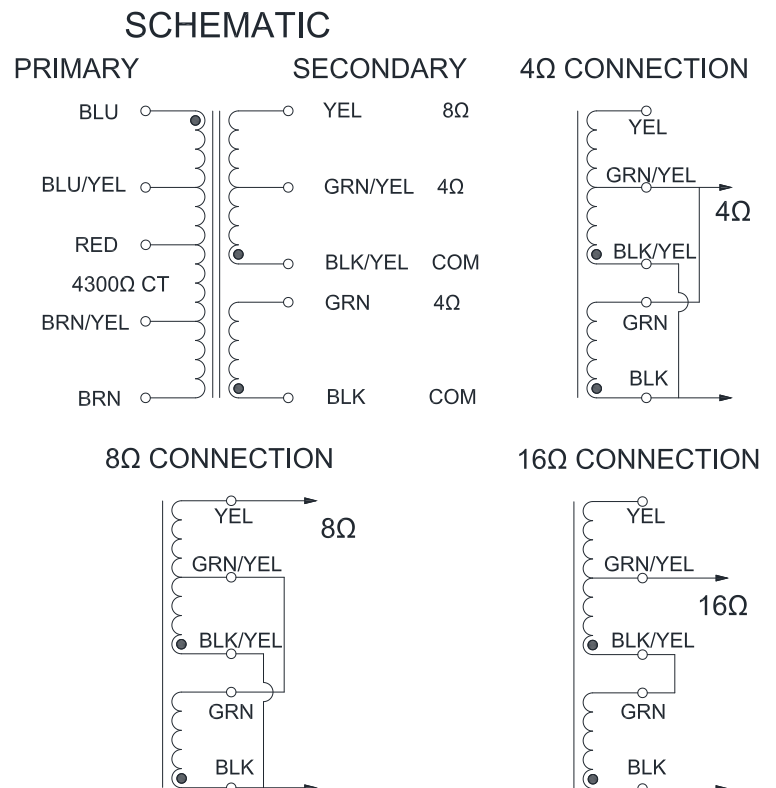


1650N

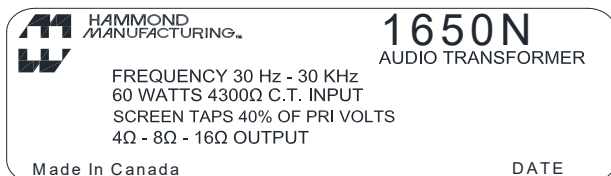
"CLASSIC" PUSH-PULL TUBE TYPE ULTRA-LINEAR OUTPUT TRANSFORMERS

- Designed for push-pull tube output circuits.
- Enclosed (shielded), 4 slot, above chassis Type "X" mounting.
- Frequency response 30 Hz. to 30 KHz. at full rated power (+/- 1 db max. - ref. 1 KHz) minimum.
- Insulated flexible leads 8" min.
- Manufactured with plastic coil forms for coil support and insulation.
- Typical applications - Push-Pull: triode, Ultra-Linear pentode, pentode and tetrode connected audio output.
- Due to the unique interleaving of the windings BOTH secondary windings must be engaged to meet specifications (see hook-up diagrams below).
- Suggested tube types: 6L6GC, 807, 5881, EL34, 6146B, 6550B, KT88

ELECTRICAL SPECIFICATIONS	
Characteristic	Typical
Input Impedance	4300 Ohms
Output Impedance	4, 8 & 16 Ohms
Output Power	60 Watts
DCR	
Primary - BlueBrown	82.5 Ohms
Secondary Black-Green	0.230 Ohm
Secondary Black/Yel-Yel	0.370 Ohm
Inductance Impedance @ 60Hz, 10.0V OC	
Primary Brown-Red	134H 59KOhm
Leakage Inductance @ 60Hz, 10.0V SC	
Primary Brown-Red	7.72mH
Dielectric Strength	2000Vrms
Temperature Range	-40 To 105°C

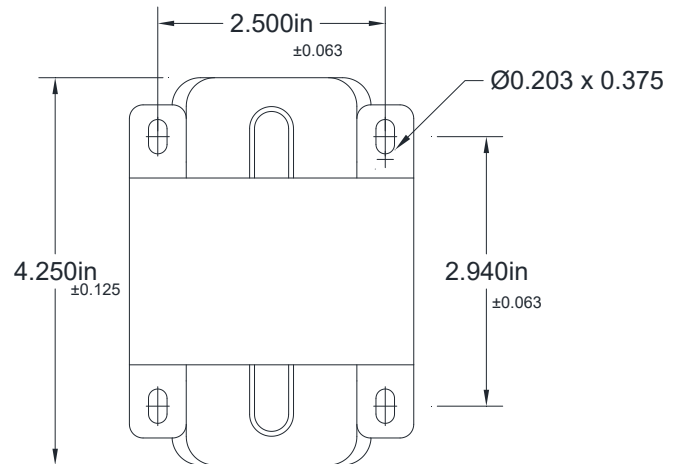
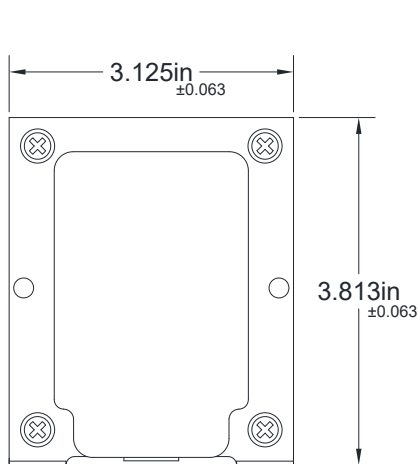
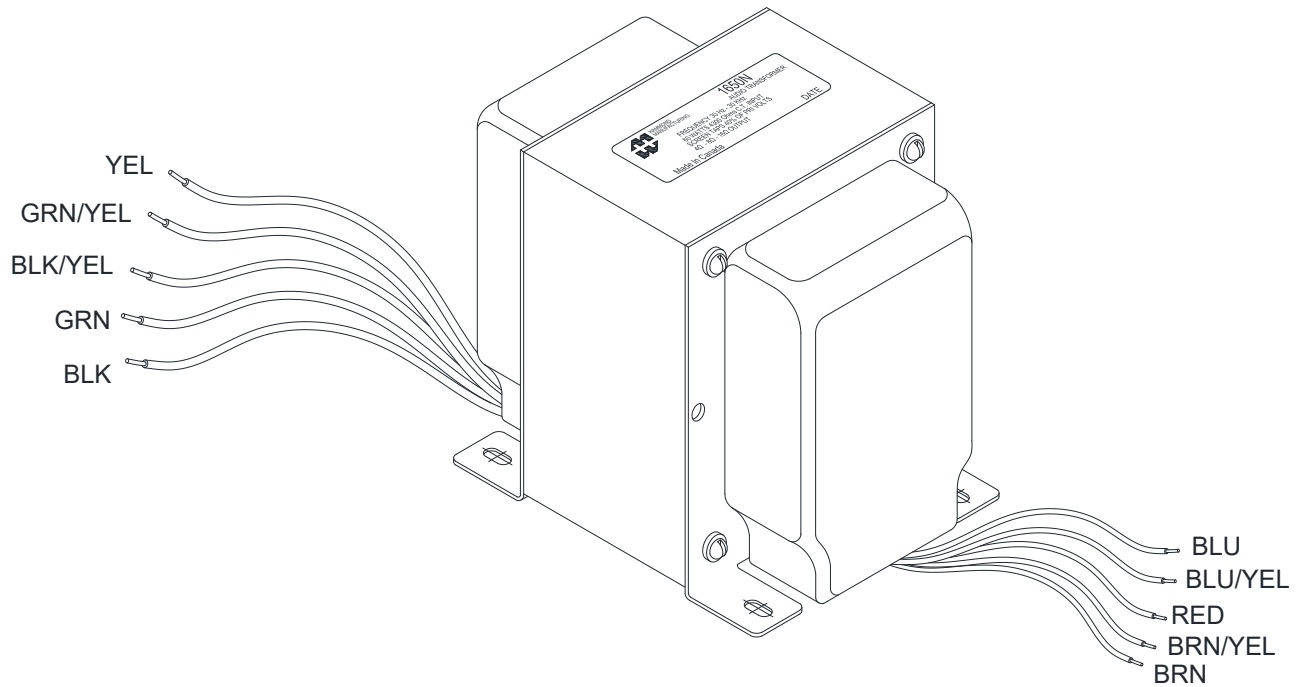


LABEL:



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 4040 watts manufacturer's technical data sheets should be consulted first, before making a decision on a proper output transformer.

DIMENSIONAL DETAILS:

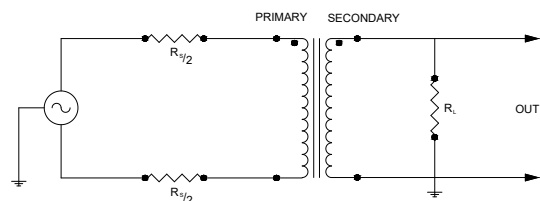


TEST CONDITIONS

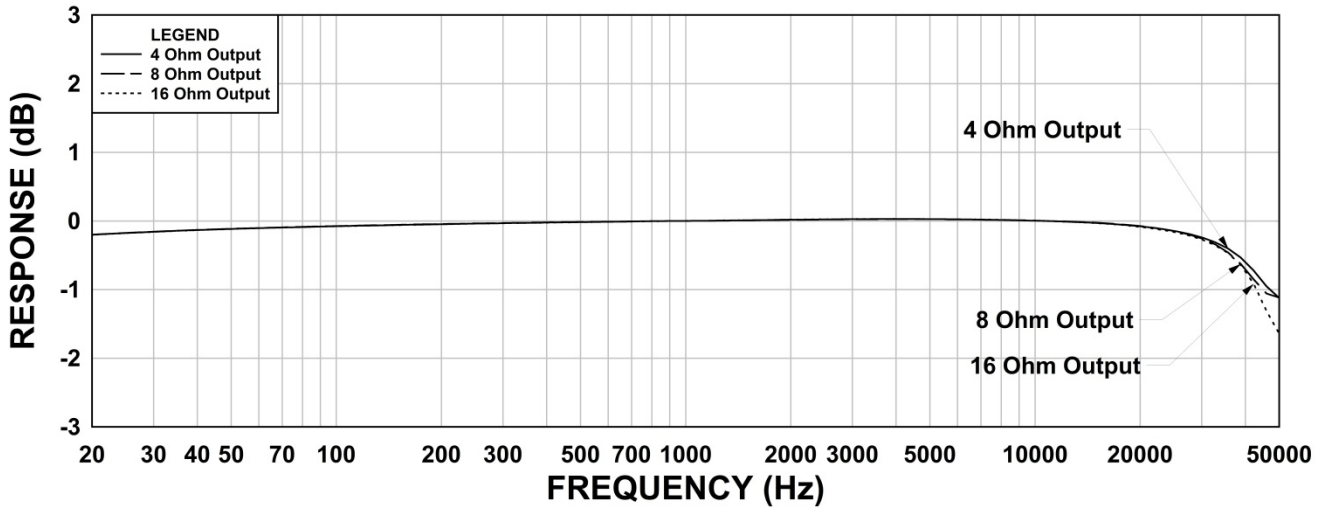
Measurement Instruments:
 dScope Series III Audio Analyzer
 Wayne Kerr 3255B with a 3265B Inductance Analyzer
 HP 4192a LF Impedance Analyzer
 Keithley 2010 DVM

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

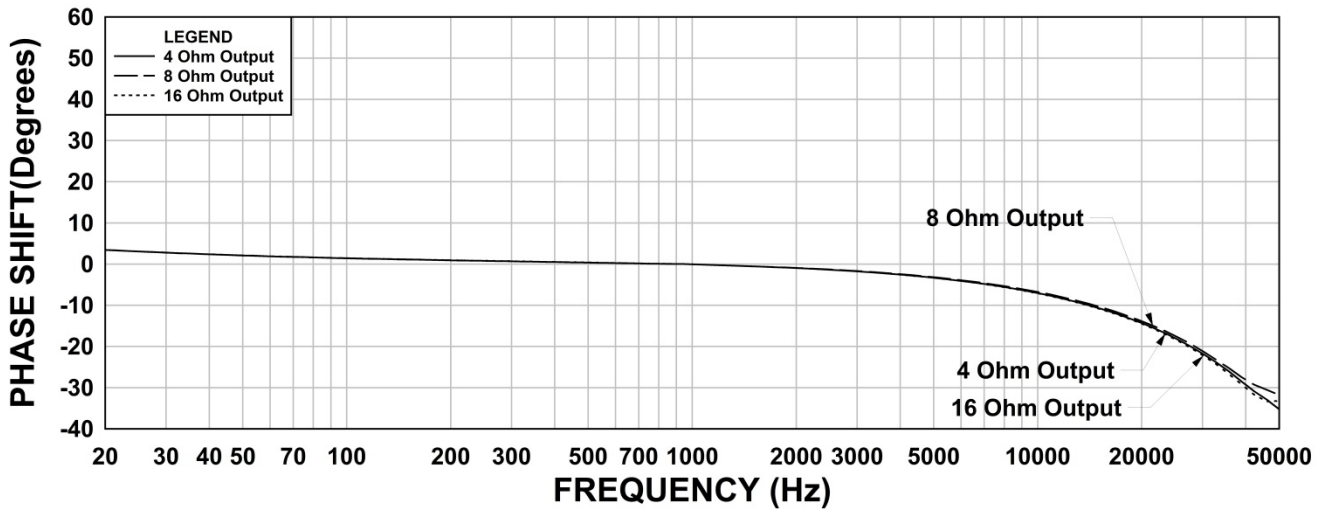
TYPICAL TEST CIRCUIT



1650N Frequency Response RL = 4300 Ohms



1650N Phase Shift RS = 4300 Ohms



1650N THD+N RS = 4300 Ohms

