Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

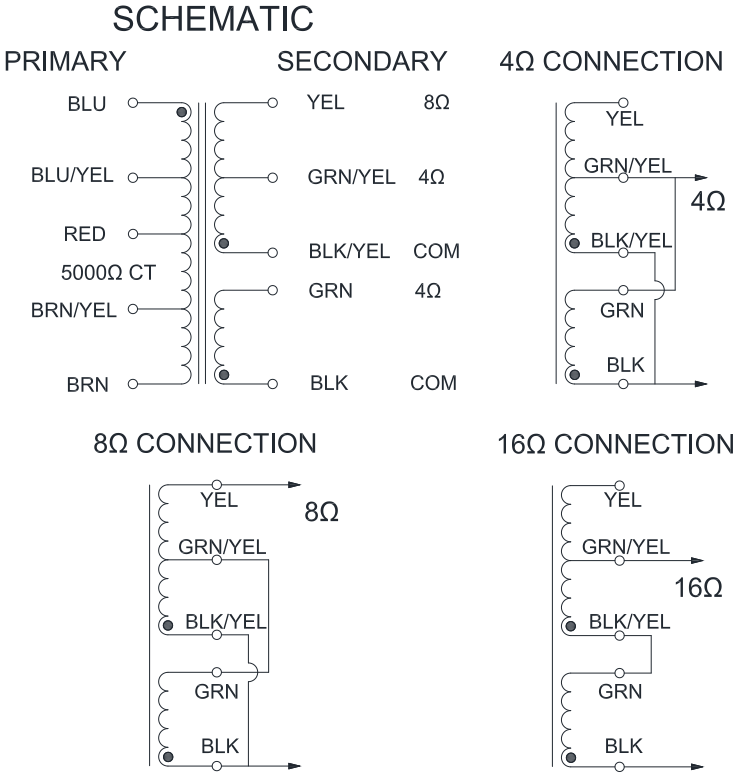
1615

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

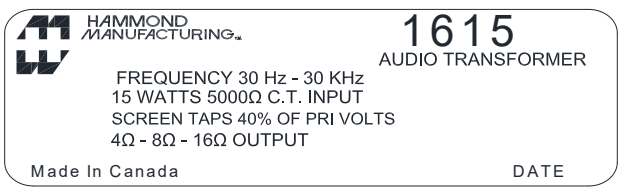
- Designed for push-pull tube output circuits.
- Enclosed (shielded), 4 slot, above chassis Type "X" mounting.
- Frequency response 30 Hz. to 30 Khz. at full rated power (+/- 1 db max. - ref. 1 Khz) minimum.
- Insulated flexible leads 9" min.
- Manufactured with plastic coil forms for coil support and 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: 2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6

ELECTRICAL SPECIFICATIONS		
Characteristic	**Typical**	
Input Impedance	5000 Ohms	
Output Impedance	4, 8 & 16 Ohms	
Output Power	15 Watts	
DCR		
Primary Brown-Red	82.40 Ohms	
Primary Red-Blue	96.60 Ohms	
Secondary Black-Green	0.180 Ohm	
Secondary Black/Yel-Yel	0.303 Ohm	
Inductance | Impedance	@ 60Hz, 10.0V OC	
Primary Brown-Red	139H	64KOhm
Leakage Inductance	@ 60Hz, 10.0V SC	
Primary Brown-Red	6.60mH	
Dielectric Strength	2000Vrms	
Temperature Range	-40 To 105°C	

SCHEMATIC

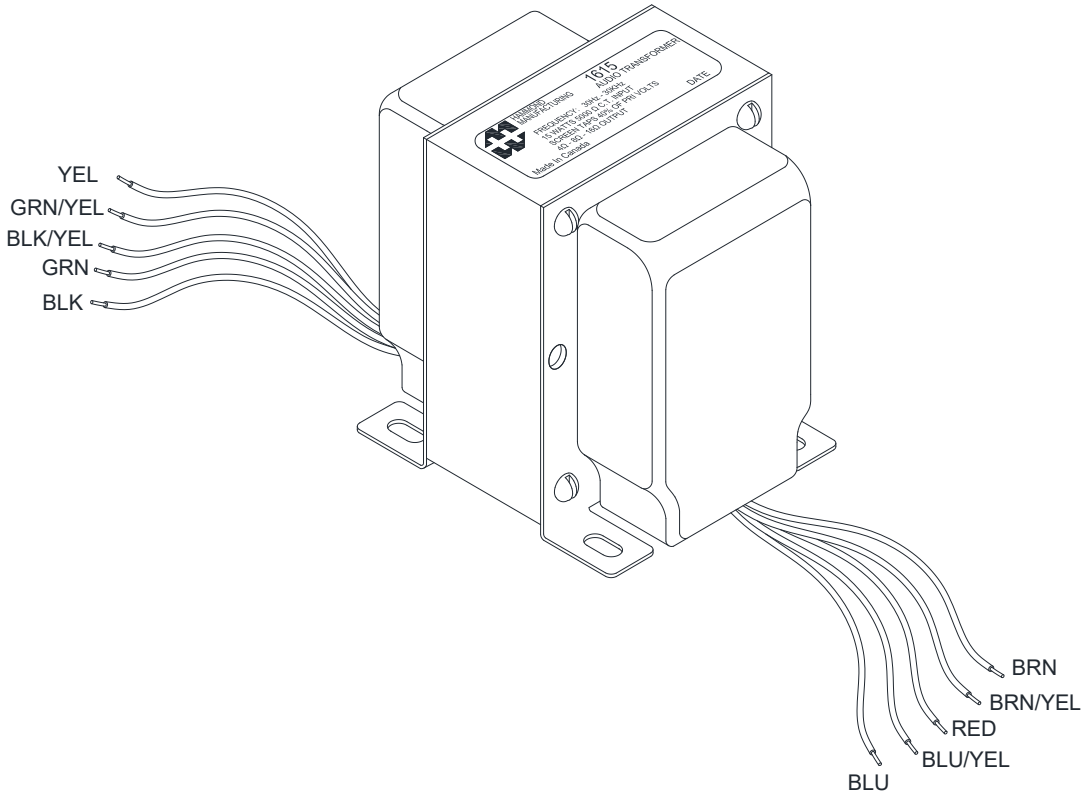


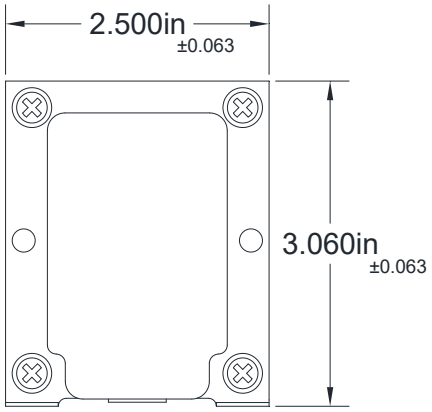
LABEL:

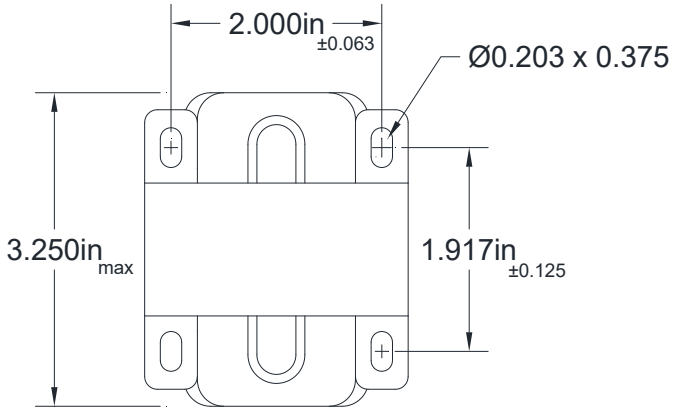


Note: The above examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube types. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, class, B+, bias, operating points, etc.) will change optimum plate to plate load impedance. Only 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:





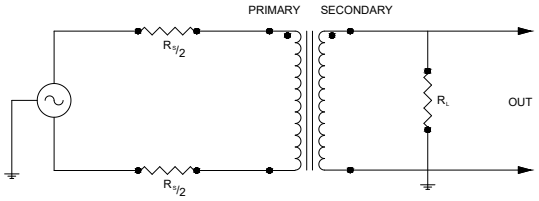


TEST CONDITIONS

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

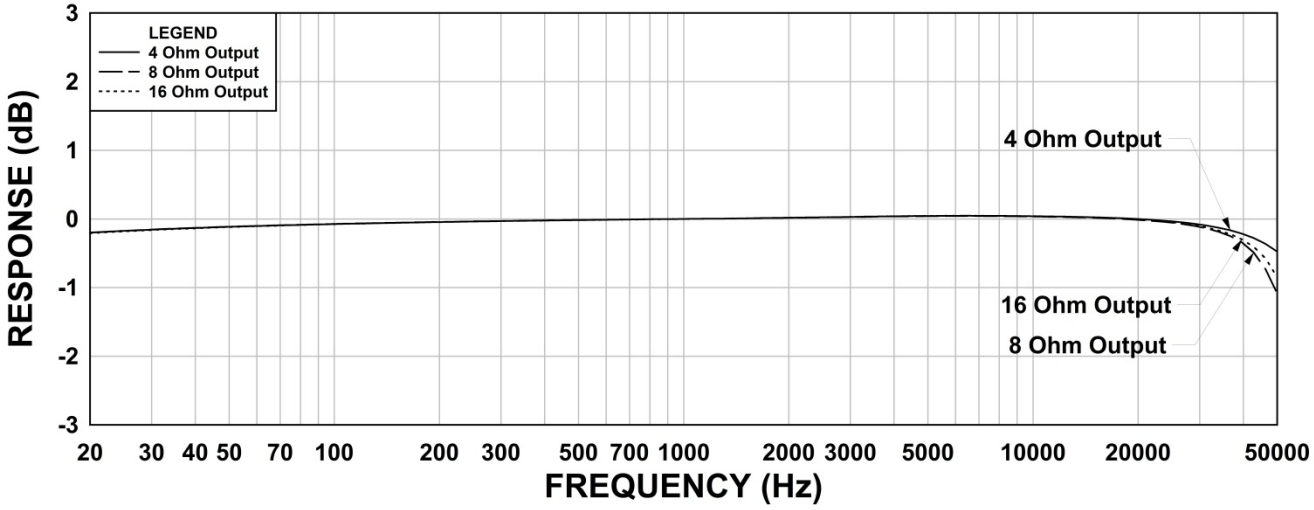
* All graphs input level 27dBu @1.0KHz reference.
**The results are typical and are subject to normal manufacturing and electrical tolerances.

TYPICAL TEST CIRCUIT

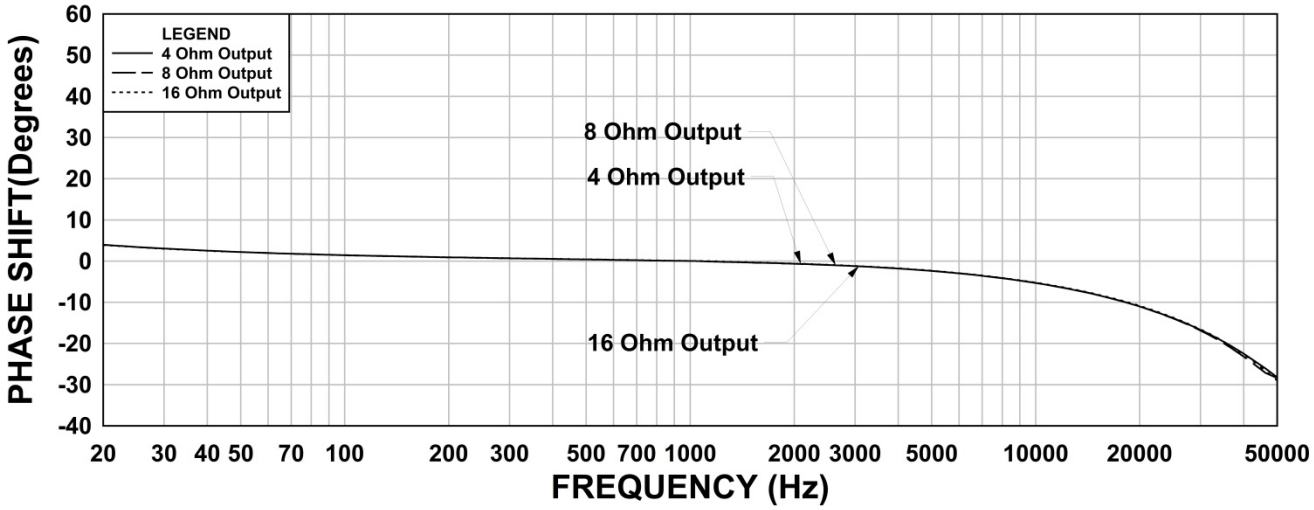


This drawing and the information in it is the property of Hammond Manufacturing. It may not be reproduced, transmitted or used in any manner whatsoever without the written permission of Hammond Manufacturing. Data subject to change without notice.

1615 Frequency Response RS = 5K Ohms



1615 Phase Shift RS = 5K Ohms



1615 THD+N RS = 5K Ohms