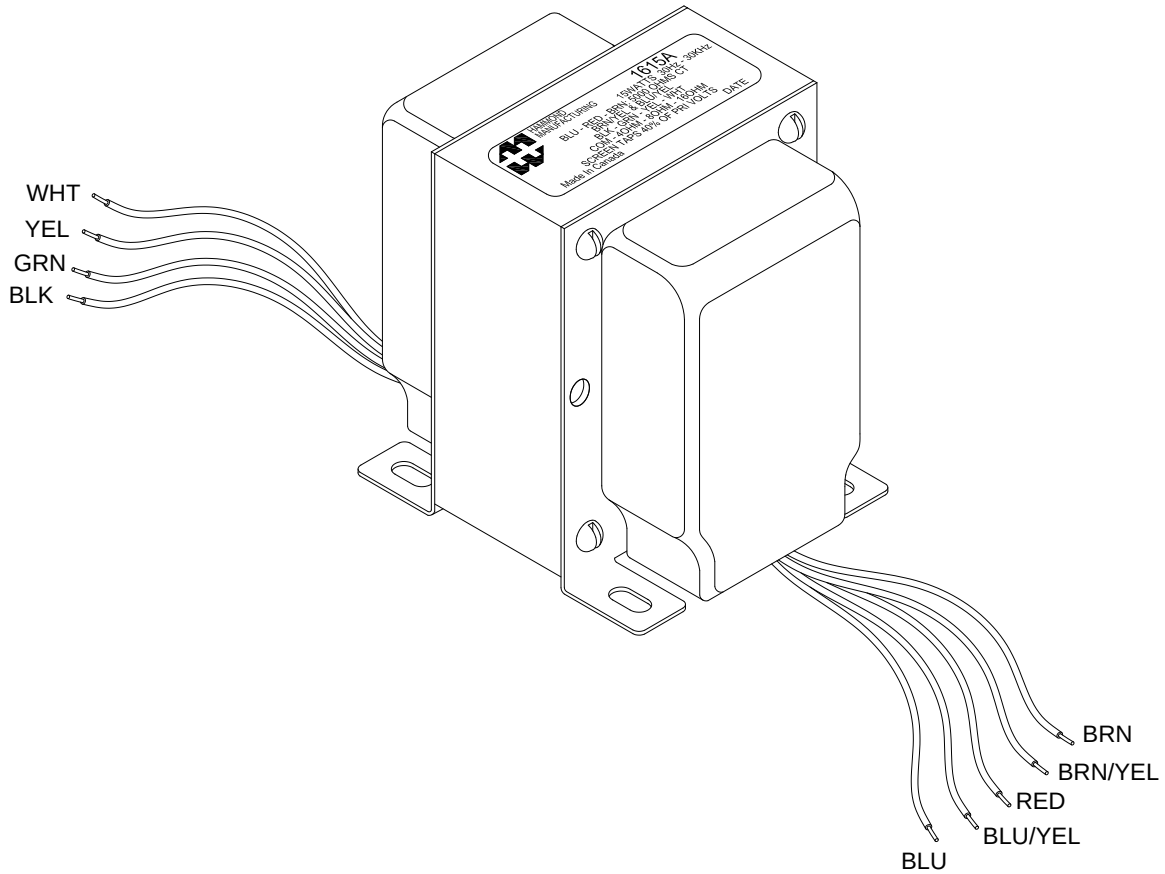
Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

1615A

HI-FI AUDIO OUTPUT MULTIPLE SECONDARY TRANSFORMER

- 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 30Hz. to 30Khz. at full rated power (+/- 1db max. - ref. 1Khz) minimum.
- Insulated flexible leads 8" min.
- Included 40% screen taps for Ultra-Linear operation (if desired).
- Typical applications - Push-Pull: triode, Ultra-Linear pentode, pentode and tetrode connected audio output.

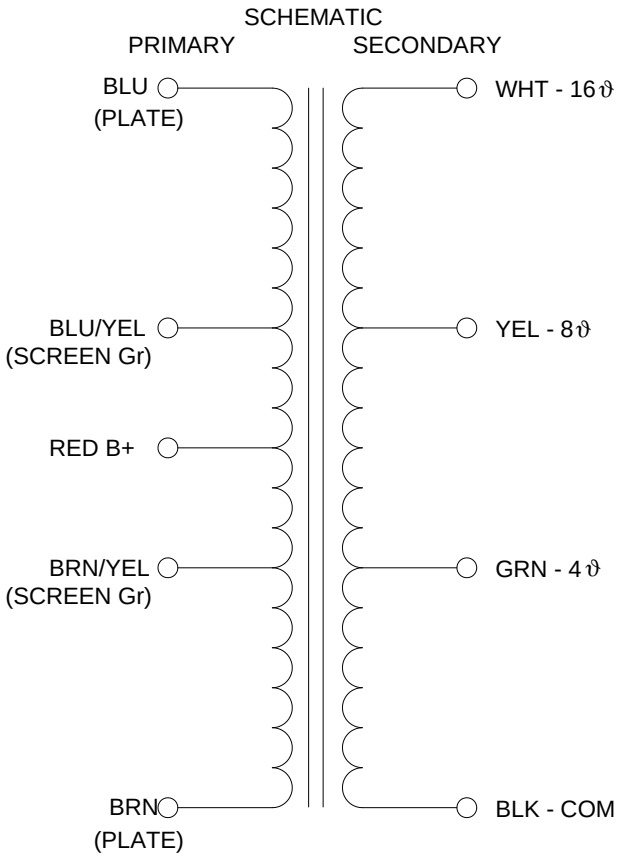


*For Full Dimensional Details see page 4

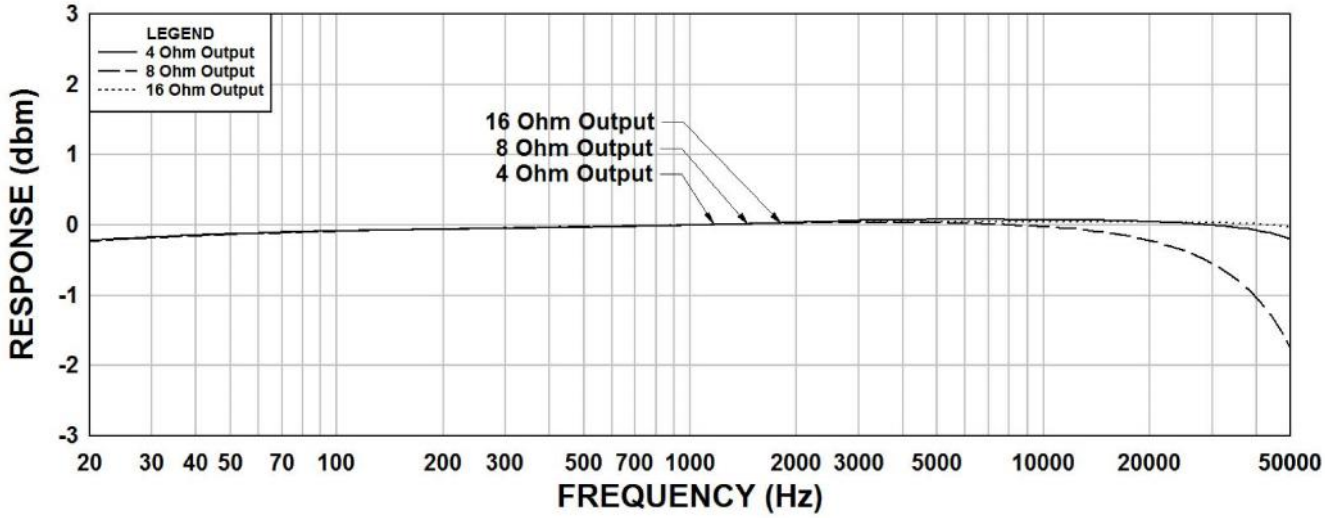
ELECTRICAL SPECIFICATIONS**

Schematic and Hook Up Data

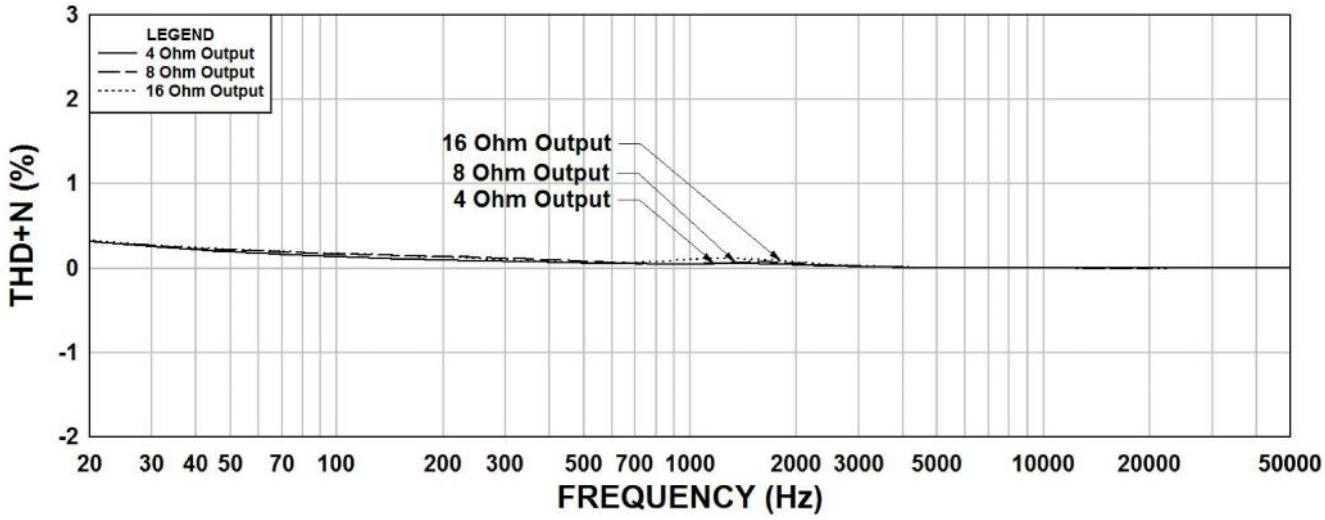
Characteristic	Typical
Input Impedance	5000ϑ
Output Impedance	4ϑ/8ϑ/16ϑ
Output Power	15Watts
Primary - DCR	
Blue – Brown	181.8ϑ
Secondary DCR	
Black – Green	193mϑ
Black – Yellow	307mϑ
Black – White	379mϑ
Inductance	@ 1.0kHz, 1.0V OC
Primary – Blue – Brown	7.5Hy
Black – Green	70.2mH
Black – Yellow	125.9mH
Black – White	210.4mH
Impedance	@ 1.0kHz, 1.0V OC
Primary – Blue – Brown	46.6Kϑ
Black – Green	186.4ϑ
Black – Yellow	356.3ϑ
Black – White	612.8ϑ
Frequency Response	See graphs for specific response, Typ. { 1.0db from 30Hz to 30KHz
Dielectric Strength	2000Vrms
Temperature Range	-40 To 105⌠C



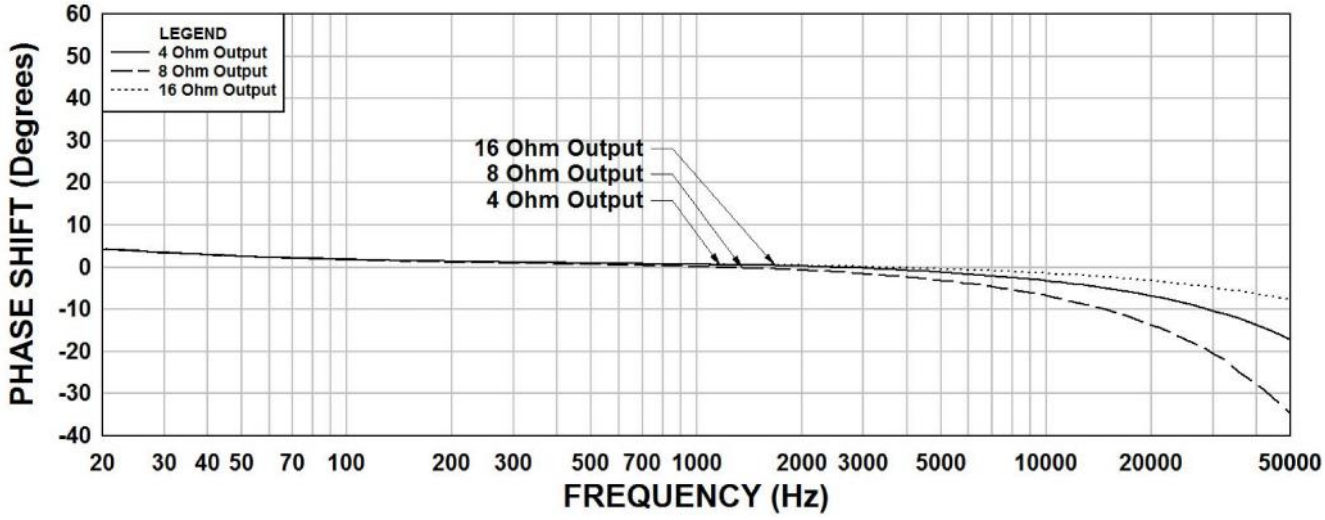
1615A Frequency Response Rs = 5K Ohms



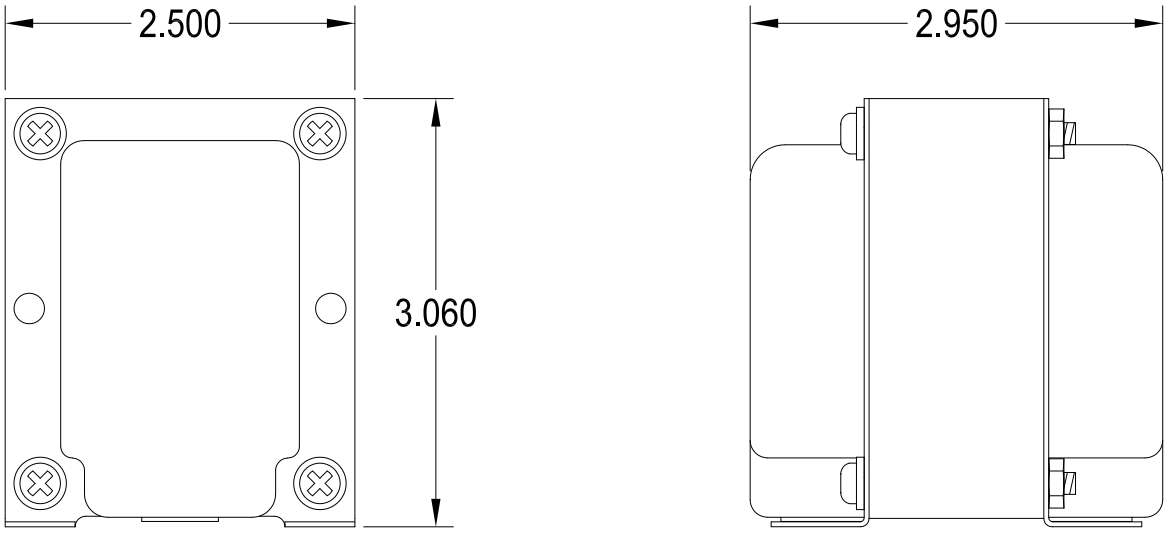
1615A THD+N Rs = 5K Ohms

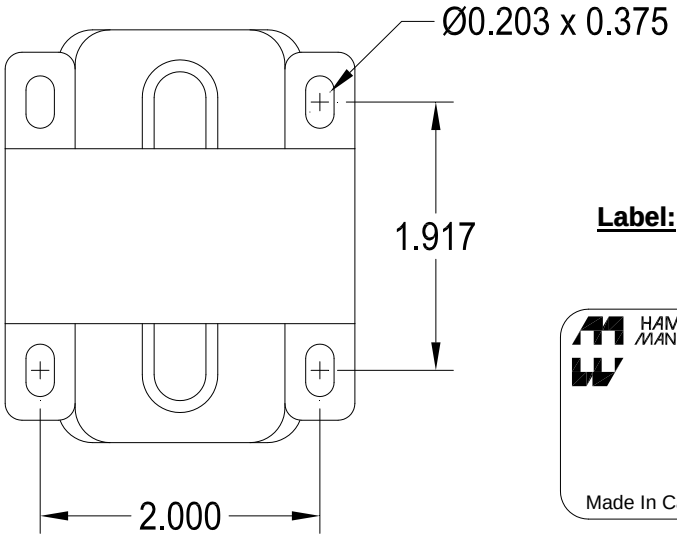


1615A Phase Shift Rs = 5K Ohms



Dimensional Details:





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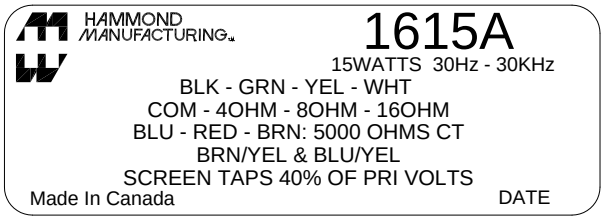
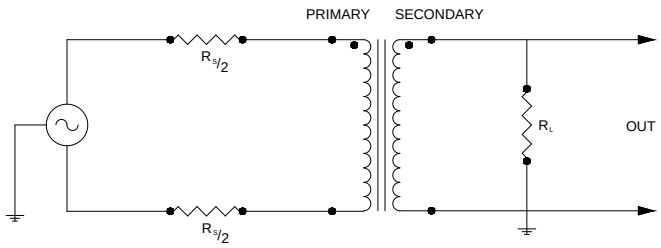


TYPICAL TEST CIRCUIT



Measurement instruments
Hp4192a impedance analyzer
Hp3456a DVM
Keithley 2002 DVM
D scope series iii audio analyzer
Wayne Kerr 3255B with a 3265B

* All graphs input level 20dbu.
** The results are typical and are subject to normal manufacturing and electrical tolerances.