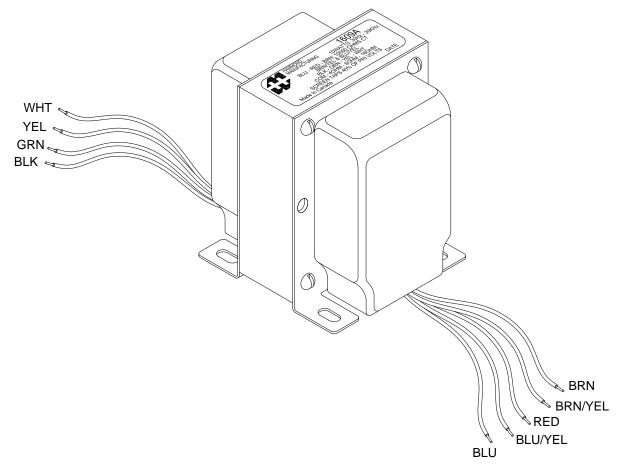


1609A

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.

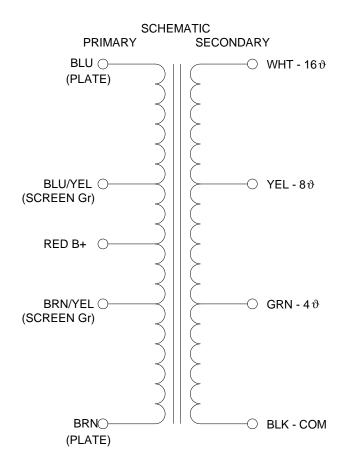


^{*}For Full Dimensional Details see page 4

ELECTRICAL SPECIFICATIONS**

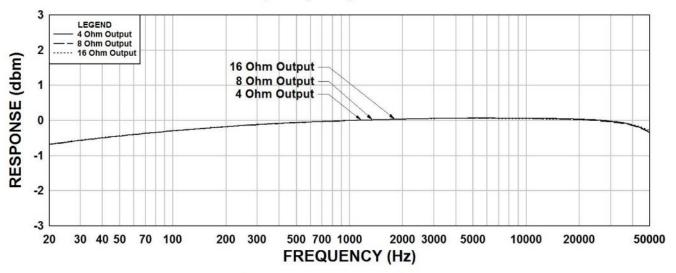
Schematic and Hook Up Data

Characteristic	<u>Typical</u>
Input Impedance	10000
Output Impedance	4ϑ/8ϑ/16ϑ
Output Power	10Watts
Primary - DCR	
Blue – Brown	246ϑ
Secondary DCR	
Black – Green	181mϑ
Black – Yellow	293mϑ
Black – White	359mϑ
Inductance	@ 1.0kHz, 1.0V OC
Primary – Blue – Brown	13.5Hy
Black – Green	51.6mH
Black – Yellow	87.2mH
Black – White	139.5mH
Impedance	@ 1.0kHz, 1.0V OC
Primary – Blue – Brown	85 Kϑ
Black – Green	147.4ϑ
Black – Yellow	283.9ϑ
Black – White	512.4ϑ
	See graphs for specific
	response, Typ. { 1.0db from
Frequency Response	30Hz to 30KHz
Dielectric Strength	2000Vrms
Temperature Range	-40 To 105∫C

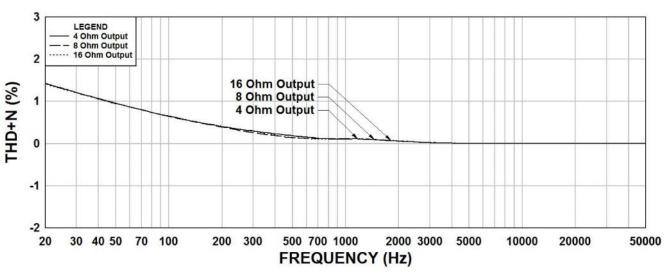


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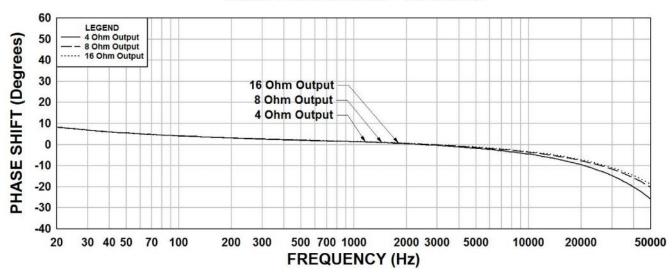
1609A Frequency Response Rs = 10K Ohms



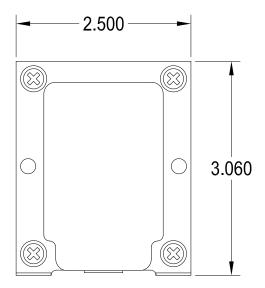
1609A THD+N Rs = 10K Ohms

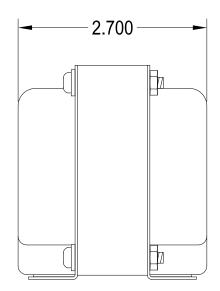


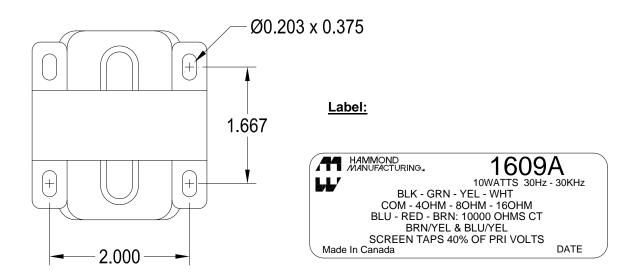
1609A Phase Shift Rs = 10K Ohms



Dimensional Details:

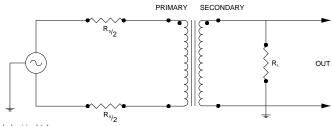






TYPICAL TEST CIRCUIT

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.

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