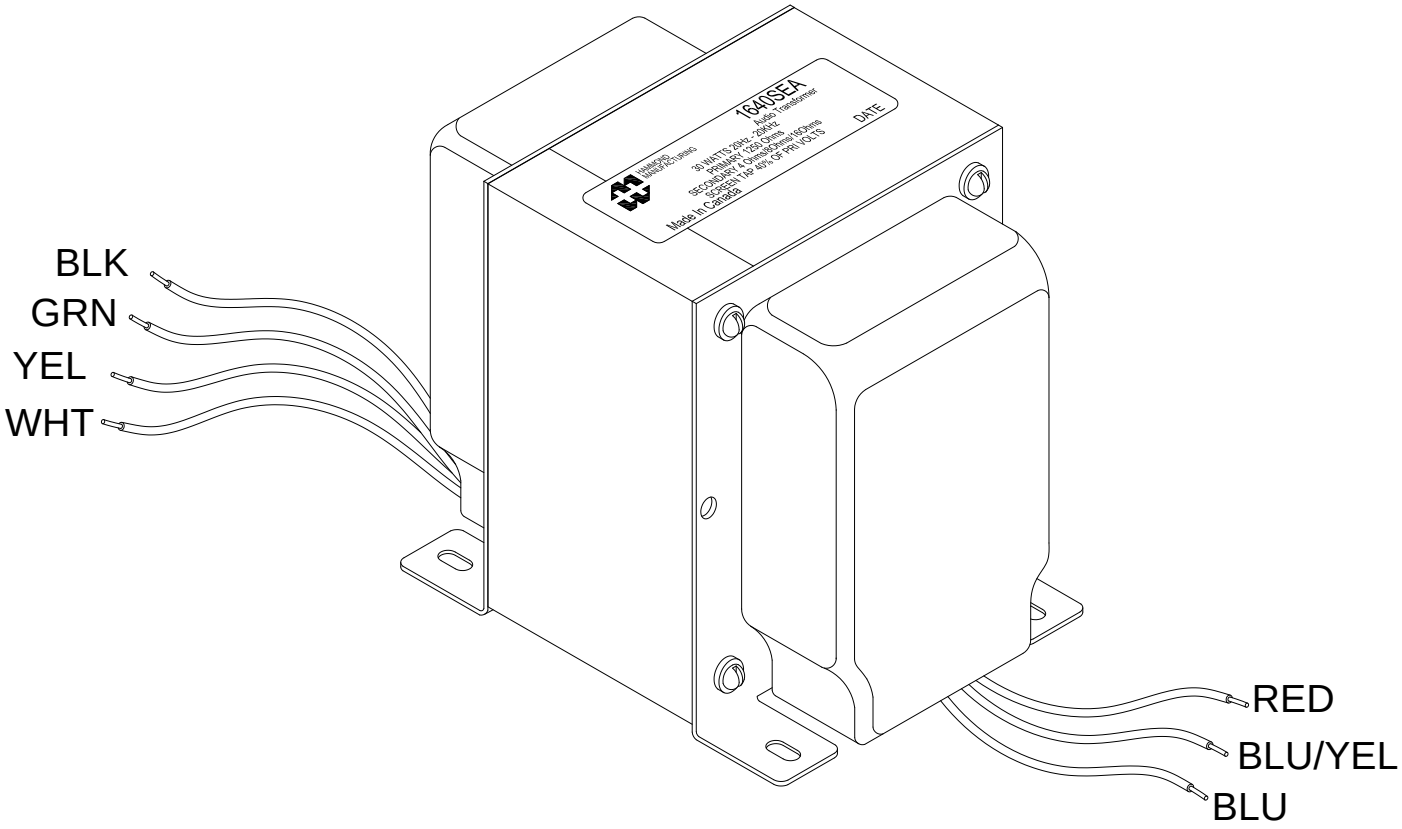
Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

1640SEA

SINGLE ENDED “CLASSIC” TUBE OUTPUT TRANSFORMER – ULTRA-LINEAR

- Over designed" for high fidelity, single ended, Class-A, tube output circuits (triode, tetrode or pentode tubes).
- Enclosed (shielded), four slot, chassis Type "X" mounting.
- Frequency response at least 20Hz. to 20Khz. at full rated power (+/- 1db max., ref. 1Khz.)
- Insulated flexible leads 8" min.
- For maximum versatility, all units (except the 1642SE & 1638SEA) include a 40% screen tap for Ultra-Linear, tetrode/pentode operation (if desired). The 1642SE & 1638SEA do NOT include this screen tap as they were designed principally for high impedance triode tubes.
- High quality laminations, (M6) grain oriented silicon steel.
- Core is gapped to reduce core saturation in Class-A tube amplifier circuits.
- For general purpose or replacement use in single ended tube output circuits see our 125SE Series.

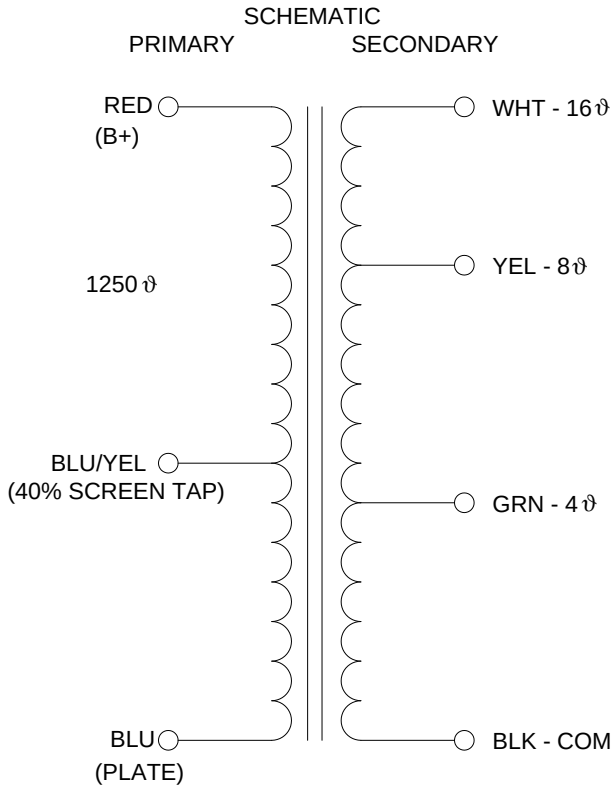


*For Full Dimensional Details see page 4

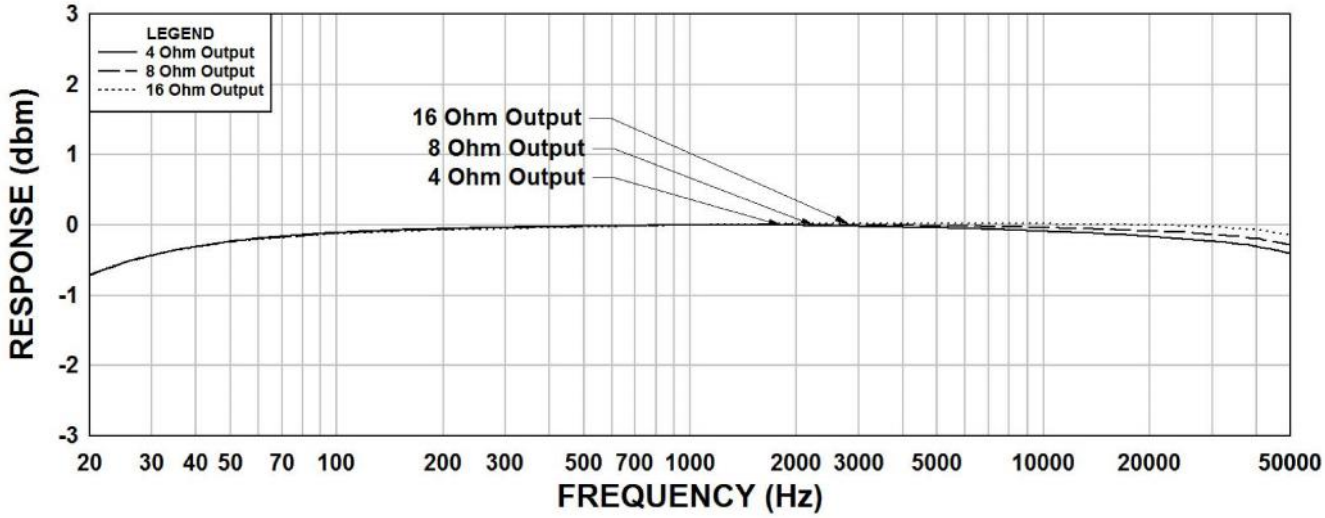
ELECTRICAL SPECIFICATIONS**

Characteristic	Typical
Input Impedance	1250ϑ
Output Impedance	4ϑ/8ϑ/16ϑ
Output Power	30Watts
Primary - DCR	
Blue – Red	28ϑ
Secondary DCR	
Black – Green	414mϑ
Black – Yellow	520mϑ
Black – White	728mϑ
Inductance	@ 1.0kHz, 1.0V OC
Primary – Blue – Red	3.2Hy
Black – Green	25.0mH
Black – Yellow	46.0mH
Black – White	82.2mH
Impedance	@ 1.0kHz, 1.0V OC
Primary – Blue – Red	19.95Kϑ
Black – Green	143ϑ
Black – Yellow	264ϑ
Black – White	475ϑ
Frequency Response	See graphs for specific response, Typ. ⌇1.0db from 20Hz to 20KHz
Dielectric Strength	2000Vrms
Temperature Range	-40 To 105⌈C

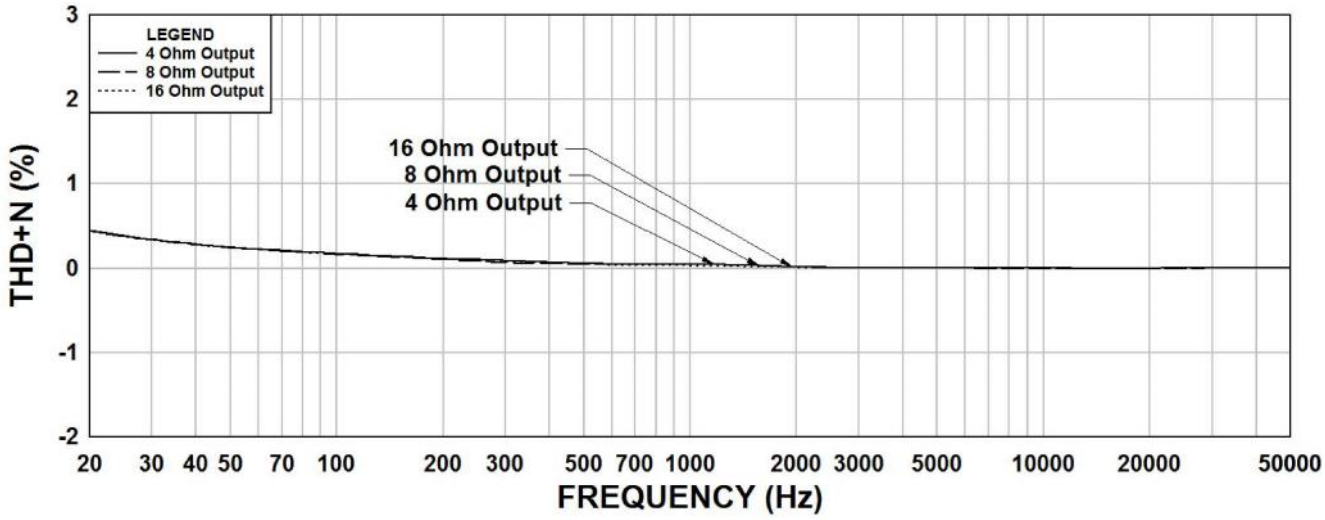
Schematic and Hook Up Data



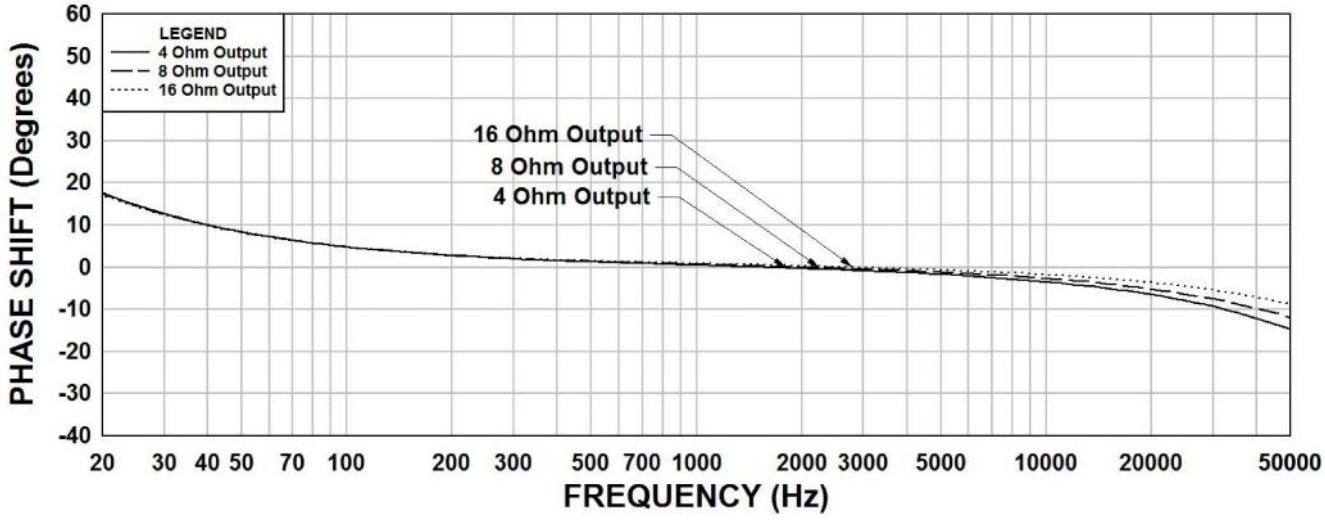
1640SEA Frequency Response Rs = 1250 Ohms



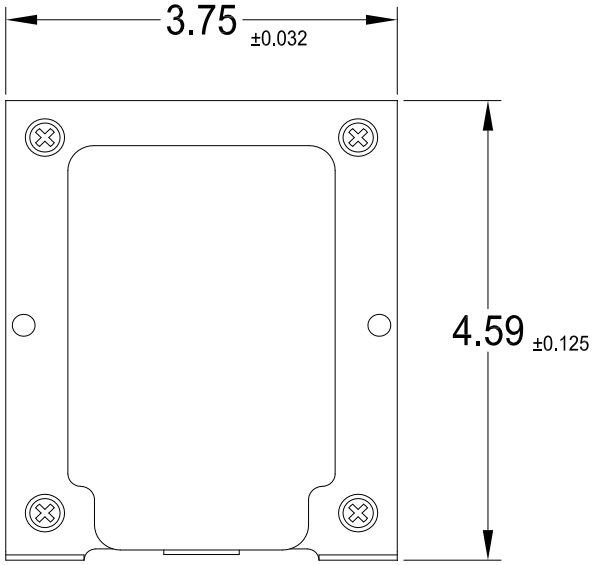
1640SEA THD+N Rs = 1250 Ohms

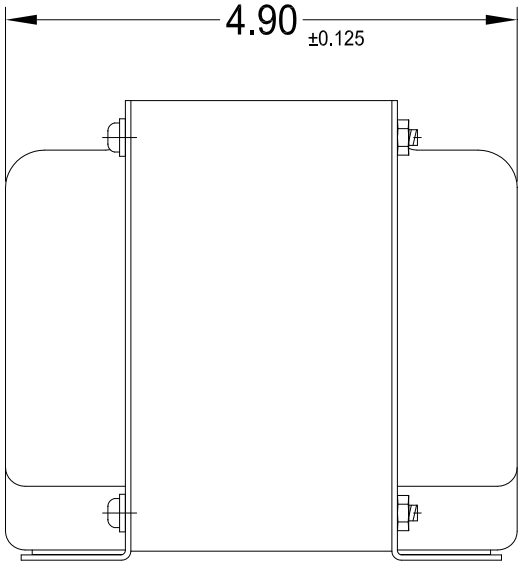


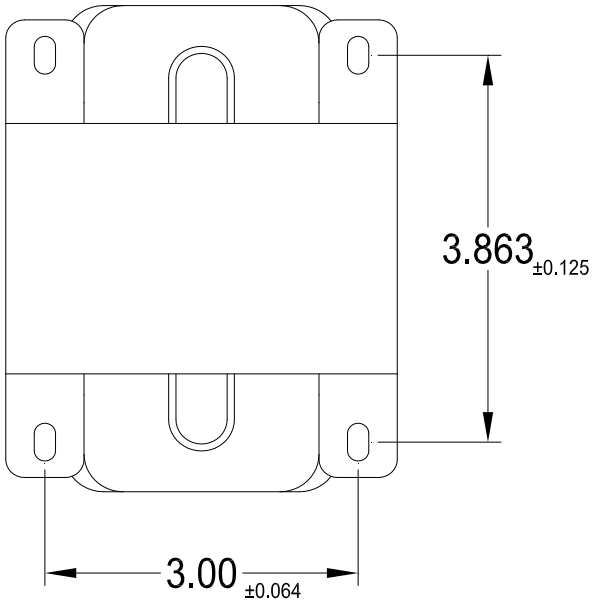
1640SEA Phase Shift Rs = 1250 Ohms



Dimensional Details:







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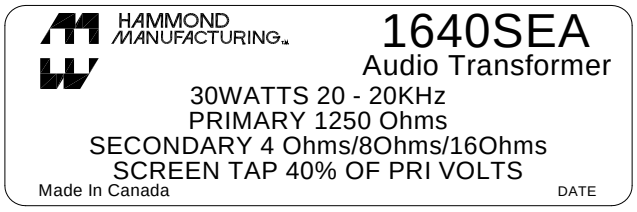
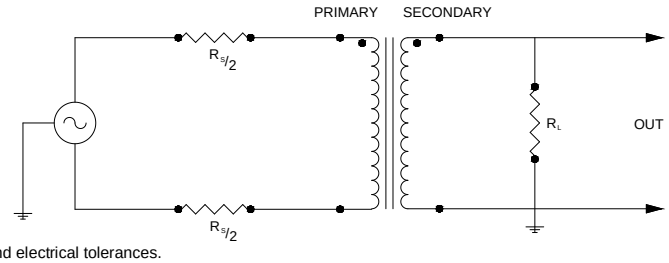


TYPICAL TEST CIRCUIT



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.