1620A
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
**1620A ELECTRICAL SPECIFICATIONS**

### Schematic and Hook Up Data

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Impedance</td>
<td>6600Ω</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>4Ω/8Ω/16Ω</td>
</tr>
<tr>
<td>Output Power</td>
<td>20Watts</td>
</tr>
</tbody>
</table>

**Primary - DCR**

- Blue – Brown: 139.1Ω

**Secondary DCR**

- Black – Green: 190mΩ
- Black – Yellow: 325mΩ
- Black – White: 480mΩ

**Leakage Inductance**

@ 1.0kHz, 1.0V SC

- Primary – Blue – Brown: 549.6mH

### Inductance

@ 1.0kHz, 1.0V OC

<table>
<thead>
<tr>
<th>Primary – Blue – Brown</th>
<th>Black – Green</th>
<th>Black – Yellow</th>
<th>Black – White</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.2H</td>
<td>63.7mH</td>
<td>102.8mH</td>
<td>158.7mH</td>
</tr>
</tbody>
</table>

### Impedance

@ 1.0kHz, 1.0V OC

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>84.0KΩ</td>
<td>192.0Ω</td>
<td>366.2Ω</td>
<td>645.8Ω</td>
</tr>
</tbody>
</table>

**Frequency Response**

See graphs for specific response, Typ. ±1.0db from 30Hz to 30KHz

**Dielectric Strength**

2000Vrms

**Temperature Range**

-40 To 105°C
Hammond Mfg. Co. Ltd., Electronics Division

Dimensional Details:

Label:

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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