HIGH-MU
TRIODE POWER AMPLIFIER

UNIPOTENTIAL CATHODE
HEATER
6.3 VOLTS 0.4 AMPERE
AC OR DC

GLASS BULB

INTERMEDIATE 6 PIN OCTAL BASE

THE TUNG-SOL 6AC5GT/G IS A HIGH MU POWER OUTPUT TRIODE DESIGNED FOR SERVICE IN DYNAMIC COUPLED CIRCUITS USING A TYPE 76, 6P5GT/G OR 6J5GT/G AS A DRIVER. TWO TUNG-SOL 6AC5GT/G'S MAY BE USED AS A ZERO BIAS CLASS B AMPLIFIER.

RATINGS

MAXIMUM PLATE VOLTAGE 250 VOLTS
MAXIMUM PEAK PLATE CURRENT 110 MA.
MAXIMUM AVERAGE PLATE DISSIPATION 10 WATTS

AVERAGE CHARACTERISTICS

PLATE VOLTAGE 250 VOLTS
CONTROL GRID VOLTAGE +13 VOLTS
PLATE CURRENT 32 MA.
GRID CURRENT 5 MA.
PLATE RESISTANCE 36700 OHMS
TRANSCONDUCTANCE 3400 24MOS
AMPLIFICATION FACTOR 125

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS B POWER AMPLIFIER

VALUES ARE FOR TWO TUBES UNLESS OTHERWISE SPECIFIED

PLATE VOLTAGE 250 VOLTS
CONTROL GRID VOLTAGE 0 VOLTS
PEAK AF SIGNAL VOLTAGE GRID TO GRID 70 VOLTS
ZERO-SIGNAL PLATE CURRENT 5 MA.
PEAK PLATE CURRENT PER TUBE 110 MA.
EFFECTIVE LOAD RESISTANCE PLATE TO PLATE 10000 OHMS
PEAK POWER INPUT .950 WATT
POWER OUTPUT APPROX. 8 WATTS

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TYPICAL OPERATION

DYNAMIC COUPLED CLASS A1 AMPLIFIER
WITH TYPE 6P5GT/G OR 76 AS DRIVER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATE SUPPLY VOLTAGE</td>
<td>250 VOLTS</td>
</tr>
<tr>
<td>CONTROL GRID VOLTAGE</td>
<td>0 VOLT</td>
</tr>
<tr>
<td>DRIVER GRID RESISTOR MAX.</td>
<td>1.0 MEGOHM</td>
</tr>
<tr>
<td>ZERO-SIGNAL PLATE CURRENT</td>
<td>32 MA.</td>
</tr>
<tr>
<td>AVERAGE PLATE CURRENT OF DRIVER</td>
<td>5.5 MA.</td>
</tr>
<tr>
<td>INPUT SIGNAL TO DRIVER (RMS)</td>
<td>16.5 VOLTS</td>
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<tr>
<td>LOAD RESISTANCE</td>
<td>7000 OHMS</td>
</tr>
<tr>
<td>TOTAL HARMONIC DISTORTION</td>
<td>10 PER CENT</td>
</tr>
<tr>
<td>POWER OUTPUT</td>
<td>3.7 WATTS</td>
</tr>
</tbody>
</table>

A BIAS VOLTAGE FOR BOTH THE 6AC5GT/G AND THE DRIVER TUBE IS DEVELOPED BY THE "DYNAMIC COUPLED" CIRCUIT CONNECTION SHOWN BELOW. THE 25,000 OHM RESISTOR IS CONNECTED BETWEEN GRID AND CATHODE OF THE 6AC5GT/G TO PREVENT A CURRENT SURGE OCCURRING WHEN THE TUBE IS HEATING.

B AT THE POINT WHERE DRIVER GRID CURRENT BEGINS TO FLOW, THE POWER OUTPUT IS 4.3 WATTS WITH 16% DISTORTION.

DYNAMIC-COUPLED CONNECTION

RESISTANCE COUPLED AMPLIFIER OPERATION
ZERO CATHODE RESISTOR CIRCUIT

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