HIGH MU TRIODE AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.3 AMPERE
AC OR DC

METAL SHELL SMALL WAKER
6 PIN OCTAL BASE
6SF5

GLASS BULB INTERMEDIATE
6 PIN OCTAL BASE
6SF5GT

THE TUNG-SOL 6SF5 AND 6SF5GT ARE GENERAL PURPOSE HIGH MU TRIODES. THEY ARE DESIGNED FOR SERVICE AS HIGH GAIN RESISTANCE COUPLED AMPLIFIERS IN AC AND AC-DC OPERATED RECEIVERS.

RATINGS

HEATER VOLTAGE (AC OR DC) 6.3 VOLTS
HEATER CURRENT 0.3 AMPERE
MAXIMUM PLATE VOLTAGE 300 VOLTS

AVERAGE CHARACTERISTICS

PLATE VOLTAGE 100 250 VOLTS
CONTROL GRID VOLTAGE -1 -2 VOLTS
PLATE CURRENT 0.4 0.9 MA.
PLATE RESISTANCE 85000 66000 OHMS
TRANSCONDUCTANCE 1150 1500 \mu\text{Mhos}
AMPLIFICATION FACTOR 100 100

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE
# TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ZERO BIAS, RESISTANCE COUPLED, CLASS A1 AMPLIFIER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATE SUPPLY VOLTAGE</td>
<td>.100</td>
<td>300</td>
</tr>
<tr>
<td>PLATE LOAD RESISTOR</td>
<td>0.25</td>
<td>0.25</td>
</tr>
<tr>
<td>GRID RESISTOR</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>COUPLING CONDENSER</td>
<td>.01 TO .005</td>
<td>.01 TO .005</td>
</tr>
<tr>
<td>GRID RESISTOR FOR FOLLOWING TUBE</td>
<td>.5 TO 1.0</td>
<td>.5 TO 1.0</td>
</tr>
<tr>
<td>EXTERNAL GRID CIRCUIT IMPEDANCE</td>
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<td>0</td>
</tr>
<tr>
<td>VOLTAGE GAIN</td>
<td>48</td>
<td>52</td>
</tr>
<tr>
<td>VOLTAGE OUTPUT (RMS)A</td>
<td>7.0</td>
<td>8.5</td>
</tr>
</tbody>
</table>

*AT FIVE PER CENT TOTAL HARMONIC DISTORTION*

### Diagram

**6SF5, 6SF5GT**

\[ E_f = 6.3 \text{V} \]