TUNG-SOL

HIGH MU TRIODE AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMPERE
AC OR DC

METAL SHELL SMALL WAFER
6 PIN OCTAL BASE
12SF5

GLASS BULB INTERMEDIATE
6 PIN OCTAL BASE
12SF5GT

BOTTOM VIEWS
6AB
G-6AB

THE TUNG-SOL 12SF5 AND 12SF5GT ARE GENERAL PURPOSE HIGH MU TRIODES. THEY ARE DESIGNED FOR SERVICE AS HIGH GAIN RESISTANCE COUPLED AMPLIFIERS IN AC - DC OPERATED RECEIVERS USING 150 MA. HEATER TUBES.

RATINGS

HEATER VOLTAGE (AC OR DC) 12.6 VOLTS
HEATER CURRENT 0.15 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 MUHRS
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></th>
<th>100</th>
<th>300</th>
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<tbody>
<tr>
<td>PLATE SUPPLY VOLTAGE</td>
<td></td>
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<tr>
<td>PLATE LOAD RESISTOR</td>
<td>0.25</td>
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<tr>
<td>GRID RESISTOR</td>
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<tr>
<td>COUPLING CONDENSER</td>
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<td>.005</td>
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<tr>
<td>GRID RESISTOR FOR FOLLOWING TUBE</td>
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<td>EXTERNAL GRID CIRCUIT IMPEDANCE</td>
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<tr>
<td>VOLTAGE GAIN</td>
<td>48</td>
<td>52</td>
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<tr>
<td>VOLTAGE OUTPUT (RMS)*</td>
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* AT FIVE PER CENT TOTAL HARMONIC DISTORTION.

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**Graph**

- **12SF5, 12SF5GT**
- **$E_f = 12.6\, V$.**