TWIN-TRIODE AMPLIFIER

COATED UNIPOTENTIAL CATHODE
6.3 VOLTS 0.6 AMPERE
AC OR DC
IN CIRCUITS WHERE THE CATHODE IS NOT
DIRECTLY CONNECTED TO THE HEATER,
THE POTENTIAL DIFFERENCE BETWEEN
HEATER AND CATHODE SHOULD BE KEPT AS
LOW AS POSSIBLE.

GLASS BULB
OCTAL 8 PIN BASE
ANY MOUNTING POSITION

THE 6SN7GT IS A TWIN LOW MU TRIODE WHOSE SECTIONS ARE ELECTRICALLY
INDEPENDENT EXCEPT FOR THE COMMON HEATER. IT IS USEFUL AS OSCILLATOR,
CONVERTER, MULTI-VIBRATOR, AS WELL AS AUDIO AMPLIFIER.

RATINGS
INTERPRETED ACCORDING TO EIA STANDARD MB-230

AMPLIFIER - EACH UNIT

MAXIMUM PLATE VOLTAGE 300 VOLTS
MINIMUM GRID VOLTAGE 0 VOLTS
MAXIMUM PLATE DISSIPATION 2.5 WATTS

DIRECT INTERELECTRODE CAPACITANCES (APPROX.)
WITH CLOSE-FITTING SHIELD CONNECTED TO CATHODE

TRIODE UNIT T1 TRIODE UNIT T2
GRID TO PLATE 3.8 4.0 µF
GRID TO CATHODE 2.8 5.0 µF
PLATE TO CATHODE .8 1.2 µF

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER

PLATE VOLTAGE 90 250 VOLTS
GRID VOLTAGE\textsuperscript{A} 0 -8 VOLTS
AMPLIFICATION FACTOR 20 20
PLATE RESISTANCE 6700 7700 OHMS
TRANSCONDUCTANCE 3000 2600 µMhos
PLATE CURRENT 10 9 MA

\textsuperscript{A} THE D-C RESISTANCE IN THE GRID CIRCUIT SHOULD NOT EXCEED 1.0 WEGOHM UNDER
MAXIMUM RATED CONDITIONS PER UNIT.

CONTINUED NEXT PAGE
### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

**RESISTANCE COUPLED AMPLIFIER**

VALUES ARE FOR ONE TRIODE UNIT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>90</th>
<th>180</th>
<th>300</th>
<th>Units</th>
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<tbody>
<tr>
<td>Plate-Supply Voltage</td>
<td>90</td>
<td>180</td>
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<td>Plate Resistor</td>
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<td>Cathode Resistor</td>
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<td>Blocking Condenser</td>
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<td>Voltage Output B</td>
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<td>Peak Volts</td>
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<td>Voltage Gain C</td>
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<td></td>
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</tbody>
</table>

B VOLTAGE ACROSS GRID RESISTOR (FOR FOLLOWING STAGE) AT GRID-CURRENT POINT.

C AT 5.0 Volts (RMS) OUTPUT.

**SIMILAR TYPE REFERENCE:** Some ratings, characteristics and application for each unit, as types 6J5, 6L5G, 6N8P, 6882. Except for heater ratings, characteristics same as types 12S76F, 19J76F, 1933.