THE 6CD6G IS A HIGH PERVEANCE, BEAM POWER AMPLIFIER DESIGNED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER IN HIGH EFFICIENCY DEFLECTION CIRCUITS OF TELEVISION RECEIVERS. IT IS PARTICULARLY ADAPTABLE TO DRIVE CATHODE RAY PICTURE TUBES WHICH REQUIRE WIDE ANGLE DEFLECTION.

DIRECT INTERELECTRODE CAPACITANCES
WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G4 TO P) MAX. 1 µuf
INPUT: G4 TO (H+K&G3+G2) 26 µuf
OUTPUT: P TO (H+K&G3+G2) 10 µuf

RATINGS
INTERPRETED ACCORDING TO NAA STANDARD NR-220
FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM

HEATER VOLTAGE 6.3 Volts
MAXIMUM HEATER-CATHODE VOLTAGE 135 Volts
MAXIMUM DC PLATE VOLTAGE 700 Volts
MAXIMUM PEAK POSITIVE-PULSE PLATE VOLTAGE 6000 Volts
MAXIMUM PEAK NEGATIVE-PULSE PLATE VOLTAGE -1500 Volts
MAXIMUM DC GRID #2 VOLTAGE 175 Volts
MAXIMUM DC GRID #1 VOLTAGE -50 Volts
MAXIMUM PEAK NEGATIVE-PULSE GRID #1 VOLTAGE -150 Volts
MAXIMUM DC PLATE CURRENT 170 Ma.
MAXIMUM PLATE DISSIPATION 15 Watts
MAXIMUM GRID #2 INPUT 3 Watts
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT) 210 °C
MAXIMUM GRID #1 CIRCUIT RESISTANCE 1 Megohm

*AS DESCRIBED IN "STANDARDS OF LOAD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS," FEDERAL COMMUNICATIONS COMMISSION.
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Voltage</td>
<td>6.3</td>
</tr>
<tr>
<td>Heater Current</td>
<td>2.5</td>
</tr>
<tr>
<td>DC Plate Supply Voltage:</td>
<td></td>
</tr>
<tr>
<td>From DC Power Supply</td>
<td>350</td>
</tr>
<tr>
<td>From DC Boosts supplied by 6W4GT (Approx.)</td>
<td>150</td>
</tr>
<tr>
<td>Total Supply Voltage (Approx.)</td>
<td>500</td>
</tr>
<tr>
<td>Grid #2 Voltage</td>
<td>170</td>
</tr>
<tr>
<td>Cathode Bias Resistor</td>
<td>300</td>
</tr>
<tr>
<td>Grid #1 Input Voltage:</td>
<td></td>
</tr>
<tr>
<td>Peak-to-Peak Sawtooth Component</td>
<td>75</td>
</tr>
<tr>
<td>Negative Peaking Component</td>
<td>55</td>
</tr>
<tr>
<td>DC Plate Current</td>
<td>90</td>
</tr>
<tr>
<td>DC Grid #2 Current</td>
<td>15.5</td>
</tr>
<tr>
<td>Peak Positive-Pulse Plate Output Voltage (Approx.):</td>
<td>5500</td>
</tr>
</tbody>
</table>

B. Measured to ground.

C. Measured to cathode and is preferably obtained through a series dropping resistor for sufficient value to limit the grid #2 input to the rated maximum value.
6CD6G
PENTODE CONNECTION

$E_f = 6.3$ Volts
$E_{C1} = 0$ Volts
$E_{C2} = 175$ Volts
$E_{C1} = +5$
$E_{C2} = 150$ Volts

$I_b$
$I_{C2}$

GRID #2 MILLIAMPERES
PLATE MILLIAMPERES

0 100 200 300 400 500
PLATE VOLTS

0 50 100 150 200 250

PLATE 2386
APR. 1 1950

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