Power Pentode

7-PIN MINIATURE TYPE
With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:
Heater Characteristics and Ratings (Design-Maximum Values):
Current ................................... 0.100 ± 0.006 amp
Voltage (AC or DC) at heater
amperes = 0.100 .......................... 32 volts
Warm-up time (Average) .................. 20 sec
Peak heater-cathode voltage:
Heater negative with
respect to cathode ...................... 200 max. volts
Heater positive with
respect to cathode ..................... 200 max. volts

Direct Interelectrode Capacitances
(Approx.):
Grid No.1 to plate ...................... 0.6 pf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater ................. 12.0 pf
Plate to cathode & grid No.3,
grid No.2, and heater ................. 6.0 pf

Mechanical:
Operating Position ........................... Any
Type of Cathode .......................... Coated Unipotential
Maximum Overall Length .................. 2-5/8"
Maximum Seated Length .................. 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) .... 2" ± 3/32"
Diameter .................................. 0.650" to 0.750"
Dimensional Outline .......................... See General Section
Bulb ....................................... .T5-1/2
Base ....................................... Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW .................. 7CV

Pin 1—Cathode,
Grid No.3
Pin 2—Grid No.1
Pin 3—Heater
Pin 4—Heater
Pin 5—Grid No.1
Pin 6—Grid No.2
Pin 7—Plate

AMPLIFIER — Class A

Maximum Ratings, Design-Maximum Values:
PLATE VOLTAGE .......................... 150 max. volts
GRID-No.2 (SCREEN-GUID) VOLTAGE ..... 130 max. volts
GRID-No.2 INPUT ........................ 1.2 max. watts
PLATE DISSIPATION ...................... 5.4 max. watts

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
1-63
32ET5A

Typical Operation and Characteristics:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Voltage</td>
<td>110</td>
</tr>
<tr>
<td>Grid-No.2 Voltage</td>
<td>110</td>
</tr>
<tr>
<td>Grid-No.1 Voltage</td>
<td>-7.5</td>
</tr>
<tr>
<td>Peak AF Grid-No.1 Voltage</td>
<td>7.5</td>
</tr>
<tr>
<td>Zero-Signal Plate Current</td>
<td>30</td>
</tr>
<tr>
<td>Zero-Signal Grid-No.2 Current</td>
<td>2.8</td>
</tr>
<tr>
<td>Plate Resistance (Approx.)</td>
<td>21500</td>
</tr>
<tr>
<td>Transconductance</td>
<td>5500</td>
</tr>
<tr>
<td>Load Resistance</td>
<td>2800</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>10</td>
</tr>
<tr>
<td>Max.-Signal Power Output</td>
<td>1.2</td>
</tr>
</tbody>
</table>

volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

<table>
<thead>
<tr>
<th>Operation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>For fixed-bias operation</td>
<td>0.1 max.</td>
</tr>
<tr>
<td>For cathode-bias operation</td>
<td>0.5 max.</td>
</tr>
</tbody>
</table>

megohm

\* The dc component must not exceed 100 volts.
\b Without external shield.