Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

Electrical:

Filament, Thoriated Tungsten:
  Voltage (AC or DC) .................. 5.0 volts
  Current ................................ 12.2 to 13.7 amp
  Transconductance, for plate volts
    = 2500, grid-No.2 volts = 500,
    and plate ma. = 200 ................ 5200 μmhos
  Mu-Factor, Grid No.2 to Grid No.1: 4.5 to 6.5
  Direct Interelectrode Capacitances:
    Grid No.1 to plate ................. 0.1 max. μμf
    Grid No.1 to filament and
    grid No.2 ............................. 10.5 to 14.4 μμf
    Plate to filament and grid No.2 . 4.9 to 6.9 μμf

Mechanical:

Operating Position. .............. Vertical, radiator up or down
Overall Length. ........................ 4-1/2" ± 1/4"
Maximum Diameter. .................. 2-5/8"
Weight (Approx.) ..................... 1.7 lbs
Radiator. ............................. Integral part of tube
Terminal Diagram (See Dimensional Outline):

![Terminal Diagram]

Thermal:

Forced-Air Cooling:
  Through base toward bulb .................. 20 min. cfm
  The specified air flow at a pressure drop of 2.25 inches of water should be passed through the radiator using the recommended socket and should be started before the application of filament voltage.
  Radiator-Core Temperature ............... 150 max. °C
  Glass-Metal Seals Temperature ........... 150 max. °C

Components:

Socket. .................................. Eimac SK900, or equivalent

 Indicates a change.
RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy and
RF POWER AMPLIFIER — Class C FM Telephony

Maximum CCS\textsuperscript{b} Ratings, Absolute-Maximum Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC PLATE VOLTAGE</td>
<td>4000 max.</td>
</tr>
<tr>
<td>DC GRID-No.2 VOLTAGE</td>
<td>500 max.</td>
</tr>
<tr>
<td>DC GRID-No.1 VOLTAGE</td>
<td>-500 max.</td>
</tr>
<tr>
<td>DC PLATE CURRENT</td>
<td>350 max. ma</td>
</tr>
<tr>
<td>GRID-No.2 INPUT</td>
<td>30 max. wats</td>
</tr>
<tr>
<td>GRID-No.1 INPUT</td>
<td>10 max. wats</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
<td>500 max. wats</td>
</tr>
</tbody>
</table>

Up to 120 Mc

RF POWER AMPLIFIER — Class B Television Service

Synchronizing-level conditions per tube unless otherwise specified

Maximum CCS\textsuperscript{b} Ratings, Absolute-Maximum Values:

<table>
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<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC PLATE VOLTAGE</td>
<td>3000 max.</td>
</tr>
<tr>
<td>DC GRID-No.2 VOLTAGE</td>
<td>500 max.</td>
</tr>
<tr>
<td>DC GRID-No.1 VOLTAGE</td>
<td>-500 max.</td>
</tr>
<tr>
<td>DC PLATE CURRENT</td>
<td>350 max. ma</td>
</tr>
<tr>
<td>GRID-No.2 INPUT</td>
<td>30 max. wats</td>
</tr>
<tr>
<td>GRID-No.1 INPUT</td>
<td>10 max. wats</td>
</tr>
<tr>
<td>PLATE DISSIPATION</td>
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</tbody>
</table>

Up to 220 Mc

\textsuperscript{a} Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

\textsuperscript{b} Continuous Commercial Service.

Indicates a change.