MECHANICAL DATA

Bulb: T-12
Base: B8-110 Short Medium Shell Octal, 8-Pin
Cap: C1-1 Small
Outline: See Drawing
Basing: 8FV
Cathode: Coated Filament
Mounting Position: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Parallel</th>
<th>Volts</th>
<th>Amperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament Voltage</td>
<td>3.15</td>
<td>1.58</td>
<td></td>
</tr>
<tr>
<td>Filament Current</td>
<td>0.21</td>
<td>0.42</td>
<td></td>
</tr>
</tbody>
</table>

DIRECT INTERELECTRODE CAPACITANCES (approx.) Unshielded

Plate to Filament: 1.4 μF

RATINGS (Design Maximum Values) 3 & 4

Peak Inverse Plate Voltage
DC component: 28000 Volts
Total DC and Peak: 33000 Volts
Steady State Peak Plate Current: 80 Ma
DC Output Current: 1.1 Ma

AVERAGE CHARACTERISTICS

Tube Voltage Drop (approx.) for I_b = 7.0 Ma: 62 Volts

NOTES:

1. Pins 1 and 3 may be used as tie points for the filament dropping resistance or may be connected to the filament. Do not connect to any other circuit.

2. Filament voltage for parallel operation should never be less than 1.4 volts or more than 1.8 volts; for series operation voltage should never be less than 2.7 volts or more than 3.6 volts.

3. For operation in 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission", the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

4. Design-Maximum Ratings are the limiting values, expressed with respect to bikini tubes, at which satisfactory tube life can be expected to occur. In order to obtain satisfactory circuit performance, therefore, the equipment designer must establish the circuit design so that no design-maximum value is exceeded with a bikini tube under the worst probable operating conditions with respect to the combined effect of supply-voltage variation, equipment component variation, equipment control adjustment, load variation, and any other variation associated with the equipment or the environment of the equipment.

WARNING:

X-Ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer’s maximum Rated Anode Voltage or 16,000 volts whichever is less.
AVERAGE PLATE CHARACTERISTICS

\[ E_f = \text{RATED VALUE} \]

Current in MA

Plate Voltage

0  50  100  150  200  250

0  10  20  30  40  50