MEDIUM-MU TWIN TRIODE
MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:

<table>
<thead>
<tr>
<th>Heater Arrangement</th>
<th>Series</th>
<th>Parallel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>12.6&quot;</td>
<td>6.3 ac or dc volts</td>
</tr>
<tr>
<td>Current</td>
<td>0.15</td>
<td>0.3 amp</td>
</tr>
</tbody>
</table>

Direct Interelectrode Capacitances (Without External Shield)—Each Unit:

- Grid to Plate: 1.3 μf
- Input: 1.3 μf
- Output: 0.6 μf

Characteristics, Class A1 Amplifier (Each Unit):

- Plate Voltage: 250 volts
- Grid Voltage: -4 volts
- Amplification Factor: 40
- Plate Resistance (Approx.): 22800 ohms
- Transconductance: 1750 μmhos
- Plate Current: 3 ma
- Grid Voltage (Approx.) for plate current of 10 μamp: -11 volts

Mechanical:

- Mounting Position: Any
- Maximum Overall Length: 2-3/16"
- Maximum Seated Length: 1-15/16"
- Length, Base Seat to Bulb Top (Excluding tip): 1-9/16" ± 3/32"
- Maximum Diameter: 7/8"
- Bulb: T-6-1/2
- Base: Small-Button Noval 9-Pin (JETEC No. E9-1)
- Basing Designation for BOTTOM VIEW: 9A

Pin 1—Plate of Unit No.2
Pin 2—Grid of Unit No.2
Pin 3—Cathode of Unit No.2
Pin 4—Heater
Pin 5—Heater

Pin 6—Plate of Unit No.1
Pin 7—Grid of Unit No.1
Pin 8—Cathode of Unit No.1
Pin 9—Heater

* use of the 12.6-volt connection with an ac-heater supply is not recommended for applications involving low hum.

(continued on next page)
MEDIUM-MU TWIN TRIODE

AMPLIFIER-Class A₁
Values are for each unit

Maximum Ratings, Design-Center Values:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Voltage</td>
<td>300 max. Volts</td>
</tr>
<tr>
<td>Grid Voltage:</td>
<td></td>
</tr>
<tr>
<td>Negative bias value</td>
<td>50 max. Volts</td>
</tr>
<tr>
<td>Positive bias value</td>
<td>0 max. Volts</td>
</tr>
<tr>
<td>Plate Dissipation</td>
<td>1.5 max. Watts</td>
</tr>
<tr>
<td>Cathode Current</td>
<td>10 max. mA</td>
</tr>
<tr>
<td>Peak Heater-Cathode Voltage:</td>
<td></td>
</tr>
<tr>
<td>Heater negative with respect</td>
<td>90 max. Volts</td>
</tr>
<tr>
<td>to cathode</td>
<td></td>
</tr>
<tr>
<td>Heater positive with respect</td>
<td>90 max. Volts</td>
</tr>
<tr>
<td>to cathode</td>
<td></td>
</tr>
</tbody>
</table>

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHART No. 28
at front of Receiving Tube Section
AVG. PLATE CHARACTERISTICS
E_F = 6.3 VOLTS
PARALLEL HEATER ARRANGEMENT

PLATE MILLIAMPERES