High-Mu Twin Double-Plate Triode

9-PIN MINIATURE TYPE
For Frequency-Divider and Complex-Wave-Generator
Circuits of Electronic Musical Instruments

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .................. 12.6 ± 10% volts
Current at 12.6 volts ............... 0.15 amp
Direct Interelectrode Capacitances (Approx.):
Grid to either plate (Each unit) .... 0.9 μf
Grid to cathode and heater (Each Unit) 1.8 μf
Plate A of unit No.1 to cathode and heater 0.34 μf
Plate B of unit No.1 to cathode and heater 0.24 μf
Plate A of unit No.2 to cathode and heater 0.3 μf
Plate B of unit No.2 to cathode and heater 0.18 μf
Plate A to plate B (Each unit) ....... 0.7 μf
Plate A of unit No.1 to plate A of unit No.2 .. 0.4 μf

Characteristics, Class A Amplifier (Each Unit):
Using either plate A or plate B, with plate not in use connected to ground
Plate Voltage ...................... 250 volts
Grid Voltage ...................... -1.5 volts
Amplification Factor ............... 95
Plate Resistance (Approx.) ........ 76000 ohms
Transconductance ................ 1250 μmhos
Plate Current ..................... 1.5 ma

Mechanical:
Operating 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"
Diameter .......................... 0.750" to 0.875"
Dimensional Outline ............... See General Section
Bulb .............................. T6-1/2
Base ................................ Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW .................. 9KT

Pin 1 - Plate B of Unit No.2
Pin 2 - Grid of Unit No.2
Pin 3 - Plate A of Unit No.2
Pin 4 - Heater
Pin 5 - Heater

Pin 6 - Plate B of Unit No.1
Pin 7 - Grid of Unit No.1
Pin 8 - Plate A of Unit No.1
Pin 9 - Cathode
**FREQUENCY-DIVIDER & COMPLEX-WAVE-GENERATOR SERVICE**

Values are for Each Unit

<table>
<thead>
<tr>
<th>Maximum Ratings, Design-Maximum Values:</th>
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<tbody>
<tr>
<td><strong>PLATE A VOLTAGE.</strong> 330 max. volts</td>
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<tr>
<td><strong>PLATE B VOLTAGE.</strong> 330 max. volts</td>
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<tr>
<td><strong>GRID VOLTAGE:</strong></td>
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<tr>
<td>Positive-bias value. 0 max. volts</td>
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<tr>
<td><strong>PLATE A DISSIPATION.</strong> 0.5 max. watt</td>
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<tr>
<td><strong>PLATE B DISSIPATION.</strong> 0.5 max. watt</td>
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<tr>
<td><strong>PEAK HEATER-CATHODE VOLTAGE:</strong></td>
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<tr>
<td>Heater negative with respect to cathode. 200 max. volts</td>
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<tr>
<td>Heater positive with respect to cathode. 200° max. volts</td>
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</tbody>
</table>

▲ Without external shield.
○ The dc component must not exceed 100 volts.
AVERAGE PLATE CHARACTERISTICS

Each Unit

$E_p = 12.6$ VOLTS

USING EITHER PLATE A OR PLATE B, WITH PLATE NOT IN USE CONNECTED TO GROUND.