



## OCTODE CONVERTER

```
Heater

Voltage
Current

0.15 □□

Direct Interelectrode Capacitances:

Grid No.4 to Plate
Grid No.4 to Grid No.2

Grid No.1 to Grid No.2

Grid No.1 to All Other

Electrodes = R-F Input

Grid No.2 to All Other Electrodes

Except Grid No.1 (Osc. Output)

Grid No.1 to All Other Electrodes

Except Grid No.2 (Osc. Input)

Plate to All Other Electrodes

Maximum Overall Length

Maximum Seated Height

Maximum Diameter

Bulb
                                                                                                       Coated Unipotential Cathode
                                                                                                                                                                                                                                                                        a-c or d-c volts
                                                                                                                                                                                                                                                                                                                                          amp.
                                                                                                                                                                                                                                                                                    0.15
0.15
0.15
                                                                                                                                                                                                                                                                                                                                          шuf
                                                                                                                                                                                                                                                                                     0.60
                                                                                                                                                                                                                                                                                                                                          uuf
                                                                                                                                                                                                                                                                                          3.4
                                                                                                                                                                                                                                                                                                                                          uuf
                                                                                                                                                                                                                                                                                           3.8
                                                                                                                                                                                                                                                                                                                                          uut
                                                                                                                                                                                                                                                                                                                                           uu t
                                                                                                                                                                                                                                                                                                   2-25/32
2-1/4
1-3/16
T-9
   Bulb
Base
Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Grid #2
Pin 4 - Grid #1
Pin 5 - Grids #3 & #5
Mounting Position
                                                                                                                                                                                                                                                     Lock-in 8-Pin
Pin 6-Grid #4
Pin 7-Cathode
Pin 8-Heater
Plug - Base Shell
                                                                                                                                                                       OHO.
                                                                                                                                                                                                                                                                                                                                                      Any
                                                                                                                                       BOTTOM VIEW (8U)
CONVERTER SERVICE

Plate Voltage
Screen (Grids #3 & #5) Voltage
Screen Supply Voltage
Anode-Grid (Grid #2) Voltage
Anode-Grid Supply Voltage
Control-Grid (Grid #2) Voltage
Plate Dissipation
Screen Dissipation
Anode-Grid Dissipation
Total Cathode Current

Typical Operation and Characteristics:
Plate Voltage
Anode-Grid Voltage
Anode-Grid Voltage
Anode-Grid Voltage
Anode-Grid Voltage
Oscillator-Grid (Grid #1) Res. 50000
Plate Resistance
Conversion Transconductance
for Grid Bias of -30 volts
Conversion Transconductance
for Grid Bias of -30 volts
Conversion Current
Screen Current
Screen Current
Oscillator-Grid Current
                                                                                                                                   CONVERTER SERVICE
                                                                                                                                                                                                                                                                300 max.
100 max.
300 max.
200 max.
                                                                                                                                                                                                                                                                                                                                   volts
volts
volts
volts
volts
                                                                                                                                                                                                                                                            300 max.
0 min.
1.0 max.
0.3 max.
0.75 max.
13 max.
                                                                                                                                                                                                                                                                                                                                   watt
watt
                                                                                                                                                                                                                                                                                                                                     watt
                                                                                                                                                                                                                                                                                                                                    ma.
                                                                                                                                                                                                                                                                                                                                     volts
                                                                                                                                                                                                                                                                  100
                                                                                                                                                                                                                                                                                                                                   volts
                                                                                                                                                                                                                                                                 250
                                                                                                                                                                                                                                                                                                                                   volts
                                                                                                                                                                                                                                                     50000
0.7
                                                                                                                                                                                                                                                                                                                                    ohms
                                                                                                                                                                                                                                                                                     approx. megohm
µmnos
                                                                                                                                                                                                                                                                  550
                                                                                                                                                                                                                                                                                       approx. µmhos
                                                                                                                                                                                                                                                                  3.õ
                                                                                                                                                                                                                                                                                                                                   ma.
                                                                                                                                                                                                                                                           3.2
4.2
0.4
10.8
                                                                                                                                                                                                                                                                                                                                   ma.
                                                                                                                                                                                                                                                                                                                                   ma.
    NOTE: The transconductance between Grid #1 and Grid #2 (not oscillating) is approximately 1600 µmhos under the following conditions: plate volts, 250; screen volts, 100; anode—grid volts, 180; oscillator—grid volts, 0; and control—grid connected to cathode.
grid volts, 0; and control-grid connected to cathode.

In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

With close-fitting shield connected to cathode.

Nominal voltage = 7.0 volts.

Applied through a properly by-passed 20000-ohm voltage-dropping resistor.
              -Indicates a change.
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