



# TECHNICAL INFORMATION

## DOUBLE TRIODE

### TYPE 2C50

*Excellence in Electronics*

The 2C50 is a heater-cathode type low power double triode designed particularly for use in "discriminator" circuits of servo amplifiers.

#### MECHANICAL DATA

**ENVELOPE:** T-9 Glass

**BASE:** Special Shell, Octal 8-Pin B8-132, Melamine with barriers between pins inside and out (see tube outline drawing for dimensions)

#### TERMINAL CONNECTIONS:

|                       |                       |
|-----------------------|-----------------------|
| Pin 1 Grid, Unit 2    | Pin 5 Plate, Unit 1   |
| Pin 2 Plate, Unit 2   | Pin 6 Cathode, Unit 1 |
| Pin 3 Cathode, Unit 2 | Pin 7 Heater          |
| Pin 4 Grid, Unit 1    | Pin 8 Heater          |

**MOUNTING POSITION:** Any

#### ELECTRICAL DATA

##### HEATER CHARACTERISTICS:

Heater Voltage (ac or dc)  
Heater Current  
Heater-Cathode Voltage

12.6 volts  
0.30 amps.  
± 100 volts

##### RATINGS-ABSOLUTE MAXIMUM VALUES:

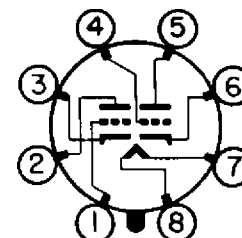
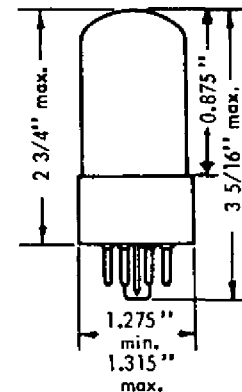
Peak Inverse Plate Voltage  
Peak Forward Plate Voltage  
DC Grid Voltage  
Plate Dissipation per Plate

900 volts  
800 volts  
-200 volts  
3.85 watts

##### CHARACTERISTICS-CLASS A<sub>1</sub> AMPLIFIER: (each unit)

Plate Voltage  
Grid Bias Voltage  
Amplification Factor  
Plate Resistance  
Transconductance  
Plate Current  
Plate Current at  $E_{c1} = 28$  V (Approx.)

200 volts  
-11 volts  
10  
3450 ohms  
2900  $\mu$ hos  
18 ma.  
0.5 ma.



BOTTOM VIEW

8BD

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Tentative Data

RAYTHEON MANUFACTURING COMPANY

FOR OPERA



## AVERAGE PLATE CHARACTERISTICS

