



Excellence in Electronics

**TYPE
2C50**

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 BB-132, Melamine with barriers between pins inside and out (see tube outline drawing for dimensions)

TERMINAL CONNECTIONS:

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

MOUNTING POSITION: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS:

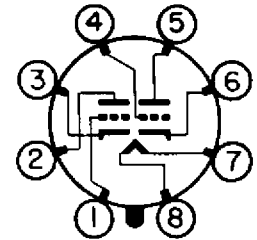
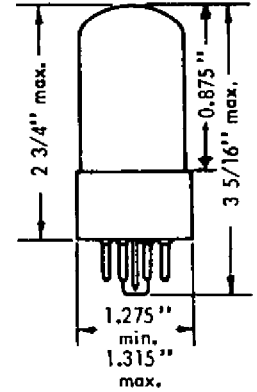
- Heater Voltage (ac or dc) 12.6 volts
- Heater Current 0.30 amps.
- Heater-Cathode Voltage ± 100 volts

RATINGS-ABSOLUTE MAXIMUM VALUES:

- Peak Inverse Plate Voltage 900 volts
- Peak Forward Plate Voltage 800 volts
- DC Grid Voltage -200 volts
- Plate Dissipation per Plate 3.85 watts

CHARACTERISTICS-CLASS A₁ AMPLIFIER: (each unit)

- Plate Voltage 200 volts
- Grid Bias Voltage -11 volts
- Amplification Factor 10
- Plate Resistance 3450 ohms
- Transconductance 2900 μmhos
- Plate Current 18 ma.
- Plate Current at E_{c1}= 28 V (Approx.) 0.5 ma.



BOTTOM VIEW

8BD

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Tentative Data

RAYTHEON MANUFACTURING COMPANY

OPERATIONAL



AVERAGE PLATE CHARACTERISTICS

