

6BZ7

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For TV Tuners Using Direct-Coupled Cathode-Drive Circuits

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

| | | |
|--------------------------------|-----------|-------|
| Voltage (AC or DC) | 6.3 ± 10% | volts |
| Current at 6.3 volts | 0.4 | amp |

Direct Interelectrode Capacitances:^a ←

| | Unit No.1 | Unit No.2 | |
|---|------------|-----------|----|
| Grid to plate | 1.2 | 1.2 | μf |
| Grid to cathode, internal shield, and heater | 2.6 | - | μf |
| Plate to cathode, internal shield, and heater | 1.2 | - | μf |
| Plate to cathode | 0.12 | 0.12 | μf |
| Heater to cathode | 2.6 | 2.6 | μf |
| Cathode to grid, internal shield, and heater | - | 5 | μf |
| Plate to grid, internal shield, and heater | - | 2.2 | μf |
| Plate of unit No.1 to plate of unit No.2 | 0.010 max. | | μf |
| Plate of unit No.2 to plate and grid of unit No.1 | 0.024 max. | | μf |

Characteristics, Class A₁ Amplifier (Each Unit): ←

| | | |
|--|------|-------|
| Plate Supply Voltage | 150 | volts |
| Cathode Resistor | 220 | ohms |
| Amplification Factor | 36 | |
| Plate Resistance (Approx.) | 5300 | ohms |
| Transconductance | 6800 | μmhos |
| Plate Current | 10 | ma |
| Grid Voltage (Approx.) for plate μa = 100 | -7 | volts |

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 <i>General Section</i> |
| Bulb | .T6-1/2 |
| Base | Small-Button Noval 9-Pin (JEDEC No.E9-1) |

← Indicates a change.



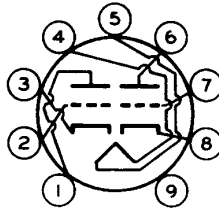
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Basing Designation for BOTTOM VIEW. 9AJ

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 - Internal Shield

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250^b max. volts
 PLATE DISSIPATION. 2 max. watts
 CATHODE CURRENT. 20 max. ma
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. 200^b max. volts
 Heater positive with respect to cathode. 200^c max. volts

→ Maximum Circuit Values:

Grid-Circuit Resistance. 0.5 max. megohm

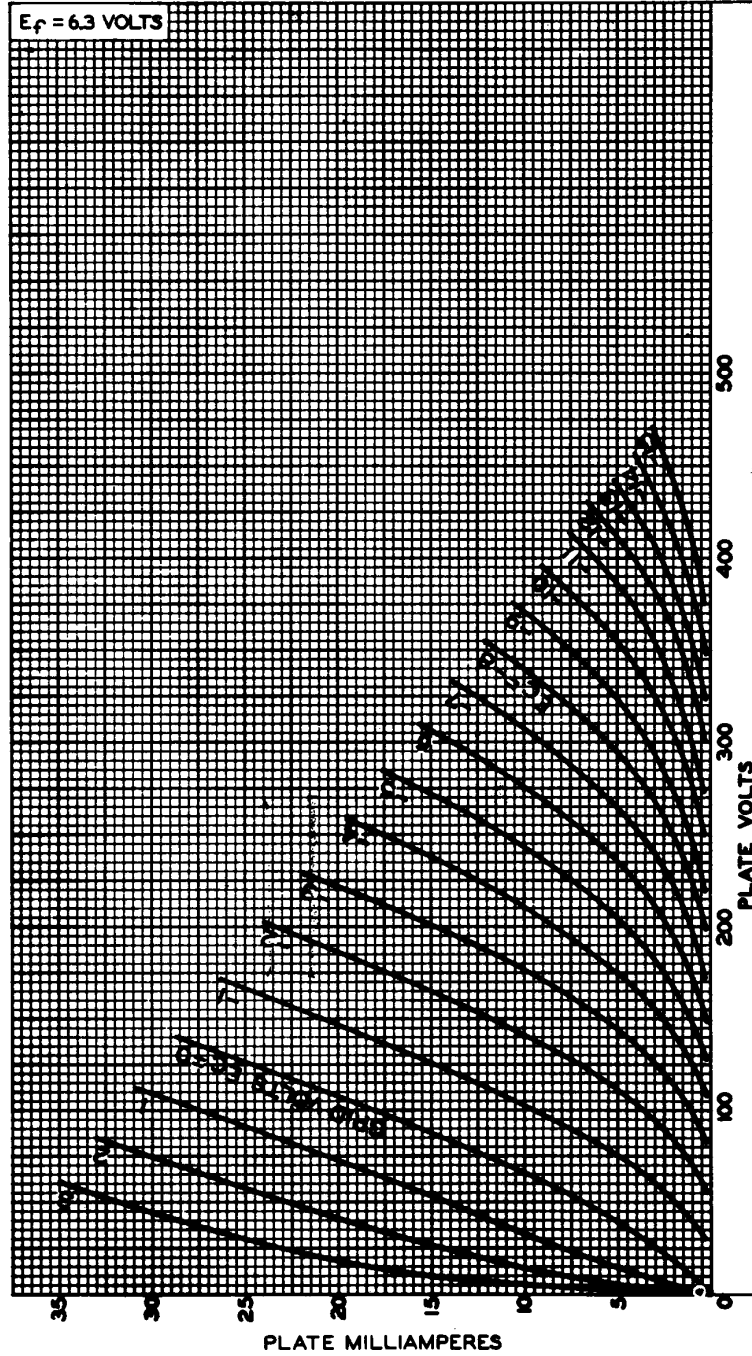
- ^a With external shield JEDEC No.315 connected to internal shield.
- ^b Under cutoff conditions indirect-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
- ^c The dc component must not exceed 100 volts.

→ Indicates a change.



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AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-9231



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