

Transconductance	2200	4500 μ mhos
Amplification Factor	17.0	15.5
Plate Resistance	7700	3450 Ohms
Plate Current at $E_c = -16$ Volts	—	3.0 Ma
Grid Voltage for $I_b = 10 \mu$ a	-24	— Volts
Grid Voltage for $I_b = 50 \mu$ a	—	-22 Volts

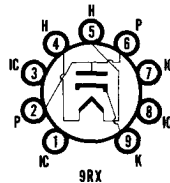
NOTES:

- (1) Section 1 connects to Pins 6, 7, and 8. Section 2 connects to Pins 1, 3, and 9.
- (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (3) In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.



Heater-Cathode Diode

Construction	Miniature T-6½
Base	E9-1
Basing ⁽¹⁾	9RX
Outline	
Maximum Diameter	0.875 In.
Maximum Seated Height	2.875 In.
Maximum Overall Height	3.125 In.



ELECTRICAL DATA

HEATER OPERATION

	6CT3	17CT3
Heater Voltage	6.3	16.8 Volts
Heater Current	1200	450 Ma
Heater Warm-up Time	—	11 Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
DC		900 Volts
Total DC and Peak		5000 Volts
Heater Positive with Respect to Cathode		
DC		100 Volts
Total DC and Peak		300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Without Shield)

Cathode to Plate and Heater	9.5 pf
Plate to Cathode and Heater	12.0 pf
Heater to Cathode	2.8 pf

RATINGS (Design Maximum Rating System)

Damper Service⁽¹⁾

Peak Inverse Plate Voltage	5000 Volts
Plate Dissipation	4.75 Watts
Steady State Peak Plate Current	1200 Ma
DC Plate Current	250 Ma

AVERAGE CHARACTERISTICS

Tube Voltage Drop ($I_b = 350$ Ma)	16 Volts
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NOTES:

- (1) For operation in a 525-line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations, Federal Communications Commission," the duty cycle of the voltage pulse is not to exceed 15% of a scanning cycle.
- (2) Pins designated Internal Connection (IC) may or may not connect to internal elements depending on the manufacturer. To maintain interchangeability do not use these pins for external connection.