

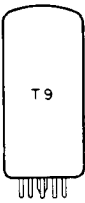
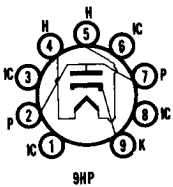
DAMPER

6CK3

12CK3, 17CK3, 25CK3

Heater-Cathode Diode

Construction Novar T-9
Base Novar Button 9 Pin, E9-89
(Exhaust Tip on Base)
Basing 9HP
Outline
Maximum Diameter 1.188 In.
Maximum Seated Height 2.625 In.
Maximum Overall Height 3.005 In.



ELECTRICAL DATA

HEATER OPERATION

	25CK3	17CK3	12CK3	6CK3
Heater Voltage.....	25.2	16.8	12.6	6.3 Volts
Heater Current.....	300	450	600	1200 Ma
Heater Warm-up Time	11	11	11	— Seconds

Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
DC	900 Volts
Total DC and Peak.....	5200 Volts
Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak	300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	3.0 Pf
Plate to Cathode and Heater.....	6.5 Pf
Cathode to Plate and Heater.....	9.0 Pf

RATINGS (Design Maximum Rating System)

Damper Service ⁽¹⁾	
Peak Inverse Plate Voltage (Max.)	5200 Volts
Plate Dissipation (Max.)	6.5 Watts
Steady State Peak Current (Max.)	1200 Ma
DC Plate Current (Max.)	250 Ma
Bulb Temperature at Hottest Point	220 °C

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 350 Ma	16 Volts
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NOTE:

(1) 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.

Color Television Type

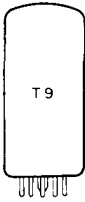
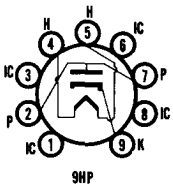
DAMPER

6CL3

12CL3, 17CL3

Heater-Cathode Diode

Construction Novar T-9
Base Novar Button 9 Pin, E9-89
(Exhaust Tip on Base)
Basing⁽¹⁾ 9HP
Outline
Maximum Diameter 1.188 In.
Maximum Seated Height 2.625 In.
Maximum Overall Height 3.005 In.



ELECTRICAL DATA

HEATER OPERATION

	17CL3	12CL3	6CL3
Heater Voltage.....	16.8	12.6	6.3 Volts
Heater Current.....	450	600	1200 Ma
Heater Warm-up Time	11	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 (Unshielded)	
Heater to Cathode	3.0 Pf
Plate to Cathode and Heater	6.5 Pf
Cathode to Plate and Heater	9.0 Pf
RATINGS (Design Maximum Rating System)	
Damper Service⁽²⁾	
Peak Inverse Plate Voltage (Max.)	5500 Volts
Plate Dissipation (Max.)	8.5 Watts
Steady State Peak Current (Max.)	1300 Ma
DC Plate Current (Max.)	250 Ma
Bulb Temperature at Hottest Point	220 °C
CHARACTERISTICS AND TYPICAL OPERATION	
Tube Voltage Drop for Ib = 350 Ma	16 Volts

NOTES:

- (1) Pins 1, 3, 6, and 8 should not be used as tie points.
- (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.

6CL6

Color Television Type
VIDEO AMPLIFIER

Beam Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	.9BV
Outline	6-3
Maximum Diameter	0.875 In.
Maximum Seated Height	2.375 In.
Maximum Overall Height	2.625 In.

**ELECTRICAL DATA
HEATER OPERATION**

Heater Voltage	
Heater Current	
Maximum Heater-Cathode Voltage	

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	
Input	
Output	

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	
Plate Dissipation (Max.)	
Grid No. 2 Voltage (Max.)	
Grid No. 2 Input (Max.)	
Grid No. 3 Voltage (Max.)	
Grid No. 1 Voltage	

Negative Bias Value (Max.)	
Positive Bias Value (Max.)	
Grid No. 1 Circuit Resistance	

Fixed Bias (Max.)	
Cathode Bias (Max.)	
Bulb Temperature (At Hottest Point) (Max.)	

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250 Volts
Grid No. 2 Voltage	150 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 1 Bias Voltage	-3 Volts
Peak AF Grid No. 1 Signal Voltage	3 Volts
Zero Signal DC Plate Current	30 Ma
Maximum Signal DC Plate Current	31 Ma
Zero Signal DC Grid No. 2 Current	7 Ma
Maximum Signal DC Grid No. 2 Current	7.2 Ma
Transconductance	11,000 μ mhos
Plate Resistance (Approx.)	90,000 Ohms
Grid No. 1 Voltage for Plate Current of 10 μ a (Approx.)	-14 Volts
Load Resistance	7500 Ohms

