ELECTRICAL DATA

HEATER OPERATION

	2DV4	6DV4
Heater Voltage	2.1	6.3 Volts
Heater Current	450	135 Ma
Heater Warm-up Time	8	— Seconds
Maximum Heater-Cathode Voltage	—	100 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	1.8 Pf
Grid to Cathode, Heater, and Shell	4.4 Pf
Plate to Cathode, Heater, and Shell	1.9 Pf
Plate to Cathode	0.25 Pf
Heater to Cathode	1.4 Pf
Grid to Cathode	3.7 Pf

RATINGS (Design Maximum Rating System)

Class A1 Amplifier

Plate Supply Voltage (Max.)(1)	300 Volts
Plate Voltage (Max.)	125 Volts
Grid Voltage	
Negative Bias (Max.)	-55 Volts
Peak Positive Bias (Max.)	2 Volts
Plate Dissipation (Max.)	1 Watt
Cathode Current (Max.)	15 Ma
Grid Circuit Resistance(2)	
Fixed Bias (Max.)	0.1 Megohm
Cathode Bias (Max.)	0.2 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Supply Voltage	75 Volts
Cathode Bias Resistor	100 Ohms
Amplification Factor	35
Plate Resistance (Approx.)	3100 Ohms
Transconductance	11,500 μmhos
Grid Voltage for Ib = 10 μa	-7 Volts
Plate Current	10.5 Ma

Oscillator at 950 MHz

Plate Voltage	60 Volts
Grid Voltage	-2 Volts
Grid Resistor	5600 Ohms
Plate Current	8 Ma
Grid Current	350 μa

NOTES:

(1) A plate supply voltage of 300 volts may be used provided that a sufficiently large resistor is used in the plate circuit to limit the plate dissipation to one watt under any condition of operation.

(2) For operation at shell temperatures up to 135° C.

6DW4A

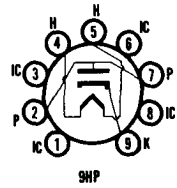
12DW4A, 17DW4A

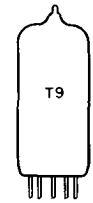
Color Television Type

DAMPER

Heater-Cathode Diode

Construction ..... Novar T-9
Base ..... Novar Button 9 Pin, E9-75
Basing(1) 9HP
Outline
Maximum Diameter ..... 1.188 In.
Maximum Seated Height ..... 3.030 In.
Maximum Overall Height ..... 3.410 In.





ELECTRICAL DATA

HEATER OPERATION

	17DW4A	12DW4A	6DW4A
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			5500 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak			300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	2.8 Pf
Plate to Cathode and Heater	6.5 Pf
Cathode to Plate and Heater	9.0 Pf
RATINGS (Design Maximum Rating System)	
Damper Service	
Peak Inverse Plate Voltage (Max.)(2)	5500 Volts
Plate Dissipation (Max.)	8.5 Watts
Steady State Peak Current (Max.)	1300 Ma
DC Plate Current (Max.)	250 Ma
CHARACTERISTICS AND TYPICAL OPERATION	
Tube Voltage Drop for Ib = 350 Ma	25 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.

Color Television Type

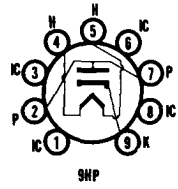
DAMPER

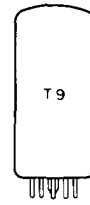
6DW4B

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.

The 6DW4B is identical to the 6DW4A except for base with exhaust tip at bottom and shorter bulb.





Color Television Type

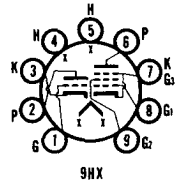
KEYED AGC, SYNC SEP./AMP. (T) VIDEO AMPLIFIER (P)

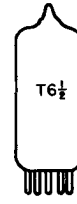
6DX8/ECL84

10DX8/LCL84

Triode and Pentode

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





ELECTRICAL DATA

HEATER OPERATION	**10DX8/ LCL84**	**6DX8/ECL84**
Heater Voltage	10.2	6.3 Volts
Heater Current	450	720 Ma
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
DC and Peak		200 Volts
Heater Positive with Respect to Cathode		
DC and Peak		200 Volts
DIRECT INTERELECTRODE CAPACITANCES		
Pentode Section		
G1 to All Elements (Except Plate)		9.0 Pf
Plate to All Elements (Except Grid No. 1)		4.5 Pf
Plate to Grid No. 1 (Max.)		0.1 Pf
Grid No. 1 to Heater (Max.)		0.1 Pf