

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
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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

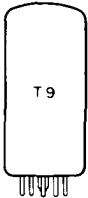
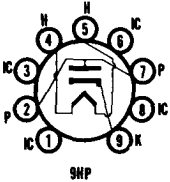
6DW4B

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)**

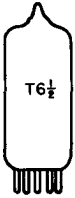
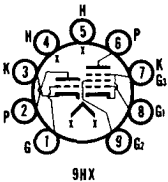
6DX8/ECL84

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

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

Triode Section

G1 to All Elements (Except Plate).....	4.0 Pf
Plate to All Elements (Except Grid No. 1)	2.3 Pf
Plate to Grid No. 1	2.7 Pf
Grid to Heater (Max.)	0.1 Pf

Coupling

Triode Plate to Pentode Grid No. 1 (Max.)	0.01 Pf
Triode Grid No. 1 to Pentode Grid No. 1 (Max.)	0.01 Pf

RATINGS (Design Center Rating System)**Pentode Section**

Plate Supply Voltage (Max.)	550 Volts
Plate Voltage (Max.)	300 Volts
Grid No. 2 Supply Voltage (Max.)	550 Volts
Grid No. 2 Voltage (Max.)	300 Volts
Cathode Current (Max.)	40 Ma
Plate Dissipation (Max.)	4 Watts
Grid No. 2 Dissipation (Max.)	1.7 Watts
Grid No. 1 Circuit Resistance	
Fixed Bias (Max.)	1 Megohm
Cathode Bias (Max.)	2 Megohms

Triode Section

Plate Supply Voltage (Max.)	550 Volts
Plate Voltage (Max.)	300 Volts
Cathode Current (Max.)	12 Ma
Plate Dissipation (Max.)	1 Watt
Grid No. 1 Circuit Resistance	
Fixed Bias (Max.)	1 Megohm
Cathode Bias (Max.)	3 Megohms

CHARACTERISTICS AND TYPICAL OPERATION**Pentode Section**

Plate Voltage	170	200	220 Volts
Grid No. 2 Voltage	170	200	220 Volts
Grid No. 1 Voltage	-2.1	-2.9	-3.4 Volts
Plate Current	18	18	18 Ma
Grid No. 2 Current	3	3	3 Ma
Transconductance	11,000	10,400	10,000 μ mhos
Plate Resistance.....	100,000	130,000	150,000 Ohms
Amplification Factor (Grid No. 1 to Grid No. 2).....	36	36	36

Triode Section

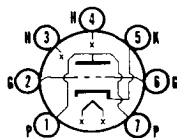
Plate Voltage	200 Volts
Grid No. 1 Voltage	-1.7 Volts
Plate Current	3 Ma
Transconductance	4000 μ mhos
Amplification Factor	65

6DZ4/6AF4A2DZ4/2AF4B
3DZ4/3AF4B

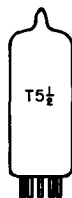
Color Television Type

UHF OSCILLATOR**Medium Mu Triode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	.7DK
Outline	5-1
Maximum Diameter	0.750 In.
Maximum Seated Height	1.500 In.
Maximum Overall Height	1.750 In.



7 DK

**ELECTRICAL DATA****HEATER OPERATION**

	2DZ4/2AF4B	3DZ4/3AF4B	6DZ4/6AF4A
Heater Voltage.....	2.35	3.2	6.3 Volts
Heater Current	600	450	225 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....	180	180	50 Volts
Heater Positive with Respect to Cathode			
DC	100	100	25 Volts
Total DC and Peak.....	180	180	50 Volts