

Color Television Type

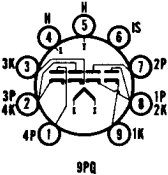
PHASE DETECTOR COLOR KILLER

6JU8A

8JU8A

Quadruple Diode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9PQ
Outline 6-2
Maximum Diameter 0.875 In.
Maximum Seated Height 1.937 In.
Maximum Overall Height 2.187 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage.....	8JU8A 8.4	6JU8A 6.3 Volts
Heater Current	450	600 Ma
Heater Warm-up Time	11	— Sec.
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		300 Volts
Heater Positive with Respect to Cathode		300 Volts
DIRECT INTERELECTRODE CAPACITANCES (Unshielded)		
K (Unit 1) to P (Unit 1) and K (Unit 2).....		1.8 Pf
P (Unit 2) to P (Unit 1) and K (Unit 2).....		2.2 Pf
P (Unit 2) to Heater and IS		0.62 Pf
K (Unit 3) to P (Unit 3) and K (Unit 4).....		1.9 Pf
P (Unit 4) to P (Unit 3) and K (Unit 4).....		2.2 Pf
P (Unit 4) to Heater and IS		0.94 Pf
K (Unit 1) to Heater and IS		1.8 Pf
K (Unit 3) to Heater and IS		1.9 Pf
RATINGS (Design Maximum Rating System) (Each Section)		
Peak Inverse Plate Voltage (Max.)		300 Volts
DC Output Current (Max.)		9 Ma
Peak Plate Current (Max.)		54 Ma
CHARACTERISTICS AND TYPICAL OPERATION		
Plate Current at Eb = 10 Volts		60 Ma

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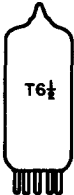
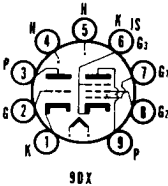
VOLTAGE AMP. or SYNC SEP. (T)
VIDEO AMPLIFIER (P)

6JV8

8JV8,

High Mu Triode and
Sharp Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9DX
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.....	8JV8 8.5	6JV8 6.3 Volts
Heater Current	450	600 Ma
Heater Warm-up Time	11	11 Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		200 Volts
Heater Positive with Respect to Cathode		
DC		100 Volts
Total DC and Peak.....		200 Volts
DIRECT INTERELECTRODE CAPACITANCES (Unshielded)		
Triode Section		
Grid to Plate		2.2 Pf
Input: g to (h + k)		3 Pf
Output: p to (h + k)		2 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.08 Pf
Input: g_1 to $(h + k + g_2 + g_3 + IS)$	8 Pf
Output: p to $(h + k + g_2 + g_3 + IS)$	3.2 Pf

Coupling

Pentode Grid No. 1 to Triode Plate (Max.)	0.012 Pf
Pentode Plate to Triode Plate (Max.)	0.24 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	300	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Plate Dissipation (Max.)	1.1	4 Watts
Grid No. 2 Dissipation (Max.)	—	1.7 Watts
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.5	0.25 Megohm
Self Bias (Max.)	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Class A1 Amplifier		
Plate Voltage	200	200 125 Volts
Grid No. 2 Voltage	—	200 125 Volts
Grid No. 1 Voltage	-2	-2.9 -1 Volts
Plate Current	4	22 22 Ma
Grid No. 2 Current	—	4.0 4 Ma
Transconductance	4000	10,700 11,500 μ mhos
Amplification Factor	70	—
Plate Resistance (Approx.)	17,500	150,000 100,000 Ohms
E_{c1} for $I_b = 20 \mu a$ (Approx.)	-5	-9 -5.5 Volts

INSTANTANEOUS PLATE KNEE CHARACTERISTICS

$E_b = 60$ V; $E_{c2} = 200$ V and $E_{c1} = 0$ V

$I_b = 51$ Ma (Approx.) and $I_{c2} = 14$ Ma (Approx.)

6JW8/ECF802

9JW8

Color Television Type

HORIZONTAL OSCILLATOR (P) REACTANCE TUBE (T)

Triode and Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	9DC
Outline	6-2
Maximum Diameter	0.875 In.
Maximum Seated Height	1.937 In.
Maximum Overall Height	2.187 In.

**ELECTRICAL DATA
HEATER OPERATION**

	9JW8	6JW8/ECF802
Heater Voltage	9.3	6.3 Volts
Heater Current	450	430 Ma
Maximum Heater-Cathode Voltage	100	100 Volts

DIRECT INTERELECTRODE CAPACITANCES**Pentode Section**

Grid No. 1	5.4 Pf
Plate to Grid No. 1	0.060 Pf
Grid No. 1 to Filament	0.1 Pf

Triode Section

Grid	2.4 Pf
Plate to Grid	1.5 Pf
Grid to Filament	0.1 Pf

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

Plate Voltage, Zero Plate Current (Max.)	550 Volts
Plate Voltage (Max.)	250 Volts
Plate Dissipation (Max.)	1.2 Watts
Grid No. 2 Voltage, Zero Plate Current (Max.)	550 Volts
Grid No. 2 Voltage (Max.)	250 Volts
Grid No. 2 Dissipation (Max.)	0.8 Watt

