

ELECTRICAL DATA**HEATER OPERATION**

Heater Voltage.....	6.3 Volts
Heater Current	300 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Deflector No. 1 to All.....	4.8 Pf
Deflector No. 2 to All.....	4.8 Pf
G1 to All (Except Plates)	7.5 Pf
Plate No. 1 to All.....	5.0 Pf
Plate No. 2 to All.....	5.0 Pf
G1 to Deflector No. 1 (Max.)	0.04 Pf
G1 to Deflector No. 2 (Max.)	0.07 Pf
Plate No. 1 to Plate No. 2	0.40 Pf
Deflector No. 1 to Deflector No. 2	0.38 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Each Plate) (Max.).....	330 Volts
Accelerator Voltage (Max.).....	330 Volts
Peak Positive Deflector Voltage (Max.)	165 Volts
Peak Negative Deflector Voltage (Max.)	165 Volts
Positive DC G1 Voltage (Max.)	0 Volt
Plate Dissipation (Each Plate) (Max.).....	3.0 Watts
Accelerator Dissipation (Max.).....	1.0 Watts
DC Cathode Current (Max.)	33 Ma
G1 Circuit Resistance	
Fixed Bias (Max.)	0.1 Megohm
Cathode Bias (Max.)	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Deflector Grounded⁽¹⁾**

Plate No. 1 Voltage	250 Volts
Plate No. 2 Voltage (Tied to Plate No. 1)	250 Volts
Accelerator Voltage	250 Volts
Deflector No. 1 Voltage	0 Volt
Deflector No. 2 Voltage	0 Volt
Cathode Resistor	220 Ohms
Plate Current (Total).....	14 Ma
Accelerator Current.....	1.5 Ma
Transconductance	4400 μ mhos
G1 Voltage for Ib = 10 μ a.....	-13 Volts

AVERAGE DEFLECTOR CHARACTERISTICS⁽²⁾

Plate No. 1 Voltage	250 Volts
Plate No. 2 Voltage	250 Volts
Accelerator Voltage	250 Volts
Cathode Resistor	220 Ohms
Deflector Switching Voltage (Max.) ⁽²⁾	20 Volts
Deflector-Bias for Minimum Deflector Switching Voltage	-14 Volts
Voltage Difference Between Deflectors for Ib1 = Ib2 (Approx.)	0 Volt
Plate No. 1 Current (Ed1 = -15 Volts; Ed2 = +15 Volts) (Max.)	0.7 Ma
Plate No. 2 Current (Ed1 = +15 Volts; Ed2 = -15 Volts) (Max.)	0.7 Ma
Deflector No. 1 Current (Ed1 = +25 Volts; Ed2 = -25 Volts) (Max.)	0.1 Ma
Deflector No. 2 Current (Ed1 = -25 Volts; Ed2 = +25 Volts) (Max.)	0.1 Ma

NOTES:

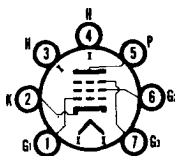
- (1) Pin No. 5 should be tied directly to ground.
- (2) Deflector switching voltage is defined as the total voltage change on either deflector with an equal and opposite change on the other deflector required to switch the plate current from one plate to the other.
- (3) The 6JH8 should not be located so as to subject it to stray magnetic fields.

6JK6**4JK6, 5JK6**

Color Television Type

IF AMPLIFIER**Sharp Cutoff Pentode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	.7CM
Outline	5-2
Maximum Diameter	.0750 In.
Maximum Seated Height	1.875 In.
Maximum Overall Height	2.125 In.



7CM



ELECTRICAL DATA

HEATER OPERATION

	4JK6	5JK6	6JK6
Heater Voltage.....	3.7	4.9	6.3 Volts
Heater Current	600	450	350 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			200 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (Max.).....	0.02 Pf
Input: g_1 to ($h + k + g_2 + g_3 + IS$)	9.5 Pf
Output: p to ($h + k + g_2 + g_3 + IS$)	2.7 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	275 Volts
Grid No. 2 Supply Voltage (Max.)	275 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	2.5 Watts
Grid No. 2 Dissipation (Max.)	0.6 Watt
Cathode Current (Max.)	22 Ma
Grid No. 1 Circuit Resistance (Self Bias) (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

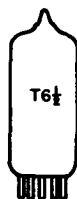
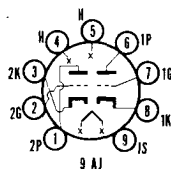
Plate Voltage	125 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 2 Voltage	125 Volts
Cathode Bias Resistor	68 Ohms
Plate Current	11.5 Ma
Grid No. 2 Current	3.9 Ma
Transconductance	18,000 μ mhos
Plate Resistance (Approx.)	0.15 Megohm
Grid No. 1 Voltage for $I_b = 20 \mu A$ (Approx.)	-3.5 Volts
R Input at 44 MHz	4000 Ohms

RF AMPLIFIER OSCILLATOR and MIXER

6JK8
8JK8, 17JK8

Double Dissimilar Triode

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



ELECTRICAL DATA

HEATER OPERATION

	17JK8	8JK8	6JK8
Heater Voltage.....	16.8	8.4	6.3 Volts
Heater Current	150	300	400 Ma
Heater Warm-up Time	17	—	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			100 Volts
Heater Positive with Respect to Cathode			
Total DC and Peak.....			100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

	Section No. 1	Section No. 2
Grid to Plate	1.4	0.60 Pf
Input: g to ($h + k + IS + E.S.$)	3.0	5.0 Pf
Output: p to ($h + k + IS + E.S.$)	1.0	4.0 Pf
Heater to Cathode	2.8	2.8 Pf