

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Grid No. 2 Supply Voltage (Max.)	330 Volts
Plate Dissipation (Max.)	3.2 Watts
Grid No. 2 Dissipation (Max.)	0.55 Watt
Positive Grid No. 1 Voltage (Max.)	0 Volt
Grid No. 1 Circuit Resistance	
Cathode Bias (Max.)	1.0 Megohm
Fixed Bias (Max.)	0.25 Megohm
Diode Current for Continuous Operation (Max.)	5.0 Ma

CHARACTERISTICS AND TYPICAL OPERATION

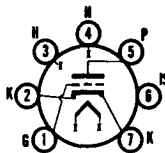
Plate Voltage	125 Volts
Grid No. 2 Voltage	125 Volts
Grid No. 3 Voltage	0 Volts
Cathode Resistor	56 Ohms
Plate Current	11.5 Ma
Grid No. 2 Current	3.6 Ma
Transconductance	9300 μ mhos
Plate Resistance (Approx.)	0.2 Megohm
Grid No. 1 Voltage for $I_b = 20 \mu$ a (Approx.)	-6 Volts
Diode Plate Voltage for Diode Current of 50 Ma ⁽²⁾	10 Volts

NOTES:

- (1) Shield No. 315.
 (2) Test condition only.

6HK5**2HK5, 3HK5, 4HK5****VHF AMPLIFIER****Gain Controlled Triode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	7GM
Outline	5-2
Maximum Diameter	0.750 In.
Maximum Seated Height	1.875 In.
Maximum Overall Height	2.125 In.



7GM



T5½

**ELECTRICAL DATA
HEATER OPERATION**

	2HK5	3HK5	4HK5	6HK5
Heater Voltage	2.3	2.9	4.0	6.3 Volts
Heater Current	600	450	300	190 Ma
Heater Warm-up Time	11	11	—	— 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)⁽¹⁾

Grid to Plate	0.29 Pf
Input: g to (h + k + IS + E.S.)	4.4 Pf
Output: p to (h + k + IS + E.S.)	2.6 Pf
Heater to Cathode	2.5 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	200 Volts
Plate Dissipation (Max.)	2.3 Watts
DC Cathode Current (Max.)	22 Ma
Negative Grid Voltage (Max.)	50 Volts
Grid Circuit Resistance (Self Bias) (Max.)	1.0 Megohm
Control grid to cathode spacing on this type is of such low order of magnitude as to preclude the use of voltage between these elements of more than 30 volts dc or peak ac in commercial tube checkers and shorts indicating devices, particularly where mechanical excitation of the tube is employed.	

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	135 Volts
Grid Voltage	-1.0 Volt
Plate Current	12.5 Ma

Transconductance	15,000 μ mhos
Amplification Factor	75
Plate Resistance (Approx.)	5000 Ohms
Ec for Gm = 150 μ mhos (Approx.)	-5.0 Volts
Ec for Gm = 1500 μ mhos (Approx.)	-2.6 Volts
Input Resistance (200 MHz) ⁽²⁾	600 Ohms
Input Capacitance (200 MHz) ⁽²⁾	9.0 Pf
Noise Figure (200 MHz) ⁽²⁾	4.2 db

NOTES:

- (1) Shield No. 316.
- (2) Measured under grounded plate conditions.
- (3) Optimized neutralized triode RF amplifier stage, noise matched.

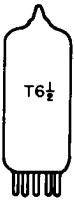
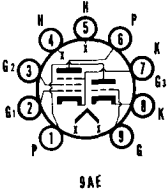
Color Television Type

SYNC SEPARATOR or VOLTAGE AMP. (T)
VIDEO/IF/AGC AMPLIFIER (P)

6HL8

Medium Mu Triode and Sharp Cutoff Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	9AE
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.....	6.3 Volts
Heater Current	600 Ma
Heater Warm-up Time	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

Triode Section

	Shielded	Unshielded
Grid to Plate	2.8	2.8 Pf
Input: g to (h + k + Pk, g3, IS)	3.0	2.8 Pf
Output: p to (h + k + Pk, g3, IS)	2.4	1.6 Pf

Pentode Section

Grid No. 1 to Plate (Max.).....	0.025	0.03 Pf
Input: g1 to (h + k, g3, IS + g2).....	7.5	7.5 Pf
Output: p to (h + k, g3, IS + g2).....	3.0	2.3 Pf

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	Triode Section	Pentode Section
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Positive Grid No. 1 Voltage (Max.)	—	0 Volt
Plate Dissipation (Max.)	2.5	2.5 Watts
Grid No. 2 Dissipation (Max.)	—	0.55 Watt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	1.0	— Megohm
Self Bias (Max.)	1.0	— Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	-1.0	-1.0 Volt
Transconductance	7000	10,000 μ mhos
Plate Current	12.5	12.0 Ma
Grid No. 2 Current	—	4.5 Ma
Plate Resistance (Approx.)	5000	150,000 Ohms
Amplification Factor	40	—
Eci for Ib = 20 μ a (Approx.).....	—	-7 Volts