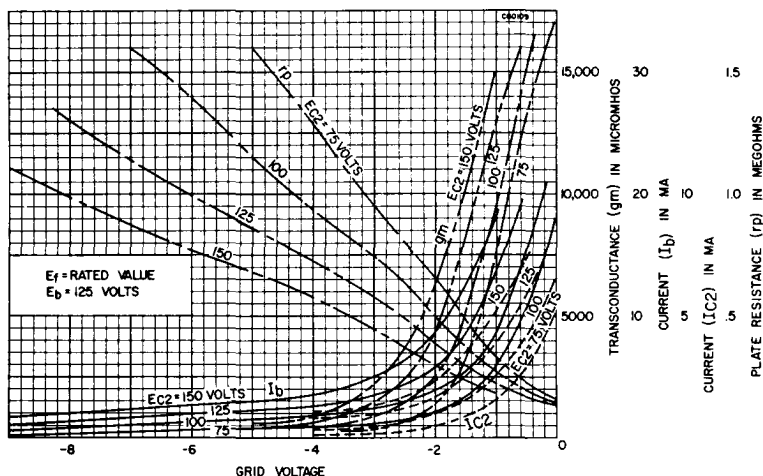


AVERAGE TRANSFER CHARACTERISTICS



CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

Plate Voltage	125 Volts
Grid No. 3	Tied to Cathode
Grid No. 2 Voltage	125 Volts
Cathode Bias Resistor	56 Ohms
Plate Current	14 Ma
Grid No. 2 Current	3.4 Ma
Transconductance	13,000 μ mhos
Plate Resistance (Approx.)	0.2 Megohm
E_{c1} for $G_m = 60 \mu$ mhos (Approx.)	-15 Volts

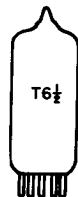
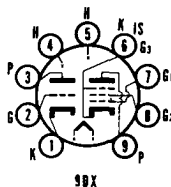
SYNC SEP. or VOLTAGE AMP. (T) VIDEO AMPLIFIER (P)

6GN8

8GN8, 10GN8

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

	10GN8	8GN8	6GN8
Heater Voltage	10.5	8.0	6.3 Volts
Heater Current	450	600	750 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			200 Volts
Heater Negative with Respect to Cathode			100 Volts
Total DC and Peak			200 Volts
Heater Positive with Respect to Cathode			
DC			
Total DC and Peak			

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section

Grid to Plate	4.4 Pf
Input: g to (h + k)	2.4 Pf
Output: p to (h + k)	0.36 Pf

Pentode Section

Grid No. 1 to Plate (Max.).....	0.1 Pf
Input: g1 to (h + k + g2 + g3 + IS).....	11 Pf
Output: p to (h + k + g2 + g3 + IS).....	4.2 Pf

Coupling

Triode Grid to Pentode Plate (Max.)	0.018 Pf
Pentode Grid No. 1 to Triode Plate (Max.)	0.005 Pf
Pentode Plate to Triode Plate (Max.)	0.17 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage (Max.).....	See Rating Chart (Gen. Info. Sec.)	
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Plate Dissipation (Max.)	1.0	5.0 Watts
Grid No. 2 Dissipation	—	1.1 Watts
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.5	0.25 Megohm
Cathode Bias (Max.)	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	250	200 Volts
Grid No. 2 Voltage	—	150 Volts
Grid No. 1 Voltage	-2	— Volts
Cathode Bias Resistor	—	100 Ohms
Plate Current	2	25 Ma
Grid No. 2 Current	—	5.5 Ma
Transconductance	2700	11,500 μ mhos
Amplification Factor	100	—
Plate Resistance	37,000	60,000 Ohms
Ec1 for Ib = 100 μ a (Approx.).....	—	-10 Volts
Ec1 for Ib = 200 μ a (Approx.).....	-5	— Volts

INSTANTANEOUS PLATE KNEE CHARACTERISTICS (Pentode Section)

Eb = 60 Volts, Ec2 = 150 Volts and Ec1 = 0 Volts

Ib = 55 Ma and Ic2 = 18 Ma.

6GQ7**19GQ7**

Color Television Type

AM or FM DETECTOR**Triple Diode**

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	.9QM
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.....	19GQ7 18.9	6GQ7 6.3 Volts
Heater Current	150	450 Ma
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)

Plate Input: p to (k + h) (Each Section)	2.05 Pf
Cathode Input: k to (p + h) (Each Section)	3.10 Pf
1p to 2p	0.47 Pf
1p to 3p	0.47 Pf
2p to 3p	0.05 Pf

RATINGS (Design Maximum Rating System) (Each Section)

Peak Inverse Plate Voltage (Max.)	330 Volts
AC Plate Voltage (RMS) (Max.)	117 Volts
Peak Plate Current (Max.)	54 Ma
DC Output Current (Max.)	9 Ma
Total Effective Supply Impedance (Min.)	300 Ohms

