

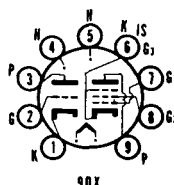
Color Television Type

VIDEO AMPLIFIER (T) GENERAL PURPOSE AMPLIFIER (P)

6LF8

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	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 (Unshielded)

Triode Section

Grid to Plate	2.2 Pf
Input: g to (h + Tk + Pk, g3, IS)	3.2 Pf
Output: p to (h + Tk + Pk, g3, IS)	1.8 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.06 Pf
Input: g1 to (h + Pk, g3, IS + g2)	10 Pf
Output: p to (h + Pk, g3, IS + g2)	3.6 Pf

Coupling

Pentode Plate to Triode Plate (Max.)	0.150 Pf
Pentode Grid No. 1 to Triode Plate (Max.)	0.008 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	See Rating Chart (Gen. Info. Sec.)	
Plate Dissipation (Max.)	1.1	3.75 Watts
Grid No. 2 Dissipation (Up to Ec2 = 165 V) (Max.)	—	1.1 Watt
Above 165 V	See Rating Chart (Gen. Info. Sec.)	
Positive Grid No. 1 Voltage (Max.)	4	0 Volts
Negative Grid No. 1 Voltage (Max.)	55	55 Volts
Grid No. 1 Current	8	0 Ma
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

Class A1 Amplifier

	Triode Section	Pentode Section
Plate Voltage	200	40
Grid No. 2 Voltage	—	—
Grid No. 1 Voltage	-2	3
Plate Current	4.0	11
Grid No. 2 Current	—	—
Grid No. 1 Current	0	2.7
Transconductance	4000	4000
Amplification Factor	70	40
Plate Resistance (Approx.)	17,500	10,000
Ec for Ib = 20 µa (Approx.)	-5	—

INSTANTANEOUS PLATE KNEE CHARACTERISTICS

Eb = 65 V, Ec2 = 150 V, Ec1 = 0 V

Ib = 60 Ma, Ic2 = 20 Ma