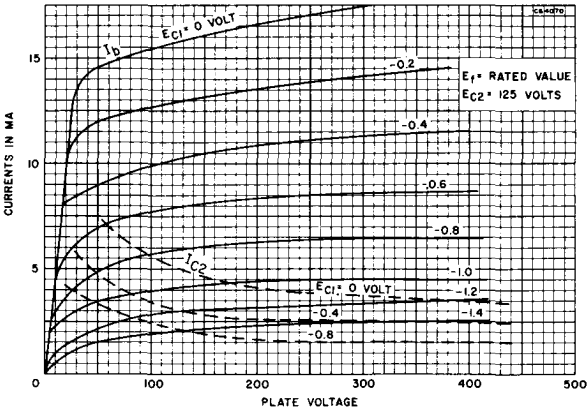


AVERAGE PLATE CHARACTERISTICS (Pentode Section)



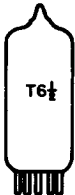
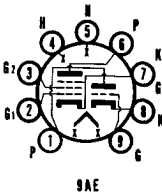
Color Television Type

BURST AMPLIFIER (P)
GENERAL PURPOSE AMPLIFIER (T)

6LM8

Medium Mu Triode and Semi-Remote 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

	Series	Parallel
Heater Voltage.....	6.3	6.3 Volts
Heater Current	450	450 Ma
Heater Warm-up Time	11	— Sec.
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 (Shielded)⁽¹⁾

Triode Section		
Grid to Plate		1.8 Pf
Input: Tg to (Tk, Pk + Pg3 + IS, H)		3.2 Pf
Output: Tp to (Tk, Pk + Pg3 + IS, H)		1.9 Pf
Pentode Section		
Grid to Plate (Max.).....		0.015 Pf
Input: Pg1 to (Pk + Pg3 + IS, Pg2, H)		5.5 Pf
Output: Pp to (Pk + Pg3 + IS, Pg2, H)		3.8 Pf
Heater to Cathode (Each Section)		3.2 Pf

RATINGS (Design Maximum Rating System)
Class A1 Amplifier

	Triode Section	Pentode Section
Plate Voltage (Max.)	330	350 Volts
Grid No. 2 (Screen-Grid) Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Grid No. 1 (Control-Grid) Voltages:		
Positive-Bias Value (Max.)	0	0 Volt

Grid No. 2 Input:

For Grid No. 2 Voltages up to 165 Volts (Max.) — 0.55 Watt

For Grid No. 2 Voltages Between 165

and 330 Volts See Rating Chart (Gen. Info. Sec.)

Plate Dissipation (Max.) 2.5 2.5 Watts

Grid No. 1 Circuit Resistance

For Fixed Bias Operation (Max.) 0.5 0.25 Megohm

For Cathode Bias Operation (Max.) 1.0 0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

	Triode Section	Pentode Section
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	-1	-2 Volts
Amplification Factor	46	—
Plate Resistance (Approx.)	5400	150,000 Ohms
Transconductance	8500	6000 μ mhos
Plate Current	13.5	12 Ma
Grid No. 2 Current	—	4 Ma
Grid No. 1 Voltage (Approx.) for Plate μ a = 10	-8	-14 Volts

NOTE:

(1) Shield No. 315.

6LQ8**11LQ8****SYNC SEP. or SOUND IF AMP.
VIDEO AMPLIFIER****Medium Mu Triode and
Sharp Cutoff Pentode**

Construction Miniature T-6½

Base Button 9 Pin, E9-1

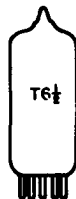
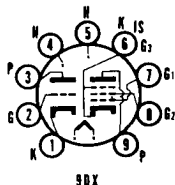
Basing 9DX

Outline 6-3

Maximum Diameter 0.875 In.

Maximum Seated Height 2.375 In.

Maximum Overall Height 2.625 In.

**ELECTRICAL DATA
HEATER OPERATION**

	11LQ8	6LQ8
Heater Voltage	10.9	6.3 Volts
Heater Current	450	775 Ma
Heater Warm-up Time	11	— Seconds
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	2.8 Pf
Input: Tg to (Tk, Pk + Pg3 + IS + H)	4.2 Pf
Output: Tp to (Tk, Pk + Pg3 + IS + H)	2.4 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.12 Pf
Input: Pg1 to (Pk + Pg3 + IS, Pg2, H)	14 Pf
Output: Pp to (Pk + Pg3 + IS, Pg2, H)	4.8 Pf
Triode Grid to Pentode Plate (Max.)	0.015 Pf
Pentode Plate to Triode Plate (Max.)	0.17 Pf

RATINGS (Design Maximum Rating System)**Class A1 Amplifier**

	Triode Section	Pentode Section
DC Plate Voltage	300	300 Volts
DC Grid No. 2 Supply Voltage	—	300 Volts
DC Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
DC Grid No. 1 Voltage:		
Positive Bias Value	0	0 Volt