

Heater Voltage (ac/dc)	6	volts
Heater Current	0.45	ampere
Peak Heater-Cathode Voltage	±100 max	volts

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)		Triode Unit	Pentode Unit	
Plate Supply Voltage		550	550	volts
Plate Voltage		250	250	volts
Grid-No.2 (Screen-Grid) Supply Voltage		—	550	volts
Grid-No.2 Voltage:				
With cathode current of 14 mA	—	175		volts
With cathode current less than 10 mA	—	200		volts
Cathode Current	14	14		mA
Plate Dissipation	1.5	1.7		watts
Grid-No.2 Input:				
With plate dissipation greater than 1.2 watts	—	0.5		watt
With plate dissipation less than 1.2 watts	—	0.75		watt

CHARACTERISTICS

Plate Voltage	100	170	volts
Grid-No.2 Voltage	—	170	volts
Grid-No.1 Voltage	—2	—2	volts
Amplification Factor	20	—	
Mu-Factor, Grid No.2 to Grid No.1	—	47	
Plate Resistance (Approx.)	—	0.4	megohm
Transconductance	5000	6200	μmhos
Plate Current	14	10	mA
Grid-No.2 Current	—	2.8	mA
Input Resistance at frequency of 50 MHz	—	0.01	megohm
Equivalent Noise Resistance	—	1500	ohms

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.5	megohm
For cathode-bias operation	0.5	1	megohm

6LQ6

6LQ6/6JE6B

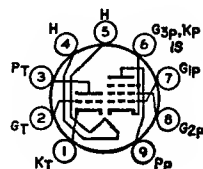
6LQ6/6JE6C

For replacement use type 6MJ6/6LQ6/6JE6C.

6LQ8

11LQ8

Miniature type used in color and black-and-white television receiver applications. The pentode unit is used as a video output tube. The triode unit is used in sync separator and sound-if circuits. Outlines section, 6E; requires miniature 9-contact socket. Type 11LQ8 is identical with type 6LQ8 except for heater ratings.

MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE

9DX

	6LQ8	11LQ8	
Heater Voltage (ac/dc)	6.3	10.9	volts
Heater Current	0.7	0.45	ampere
Heater Warm-up Time	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Direct Interelectrode Capacitances:

Triode Unit:			
Grid to Plate		2.8	pF
Grid to Triode Cathode, Pentode Cathode, Heater, Pentode			
Grid No.3, and Internal Shield		4.2	pF
Plate to Triode Cathode, Pentode Cathode, Heater, Pentode			
Grid No.3, and Internal Shield		2.4	pF
Pentode Unit:			
Grid No.1 to Plate		0.12 max	pF
Grid No.1 to Cathode Heater, Grid No.2, Grid No.3, and			
Internal Shield		14	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and			
Internal Shield		4.8	pF
Triode Grid to Pentode Plate		0.015 max	pF
Pentode Plate to Triode Plate		0.17 max	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

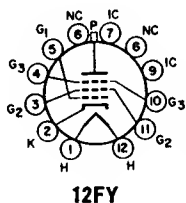
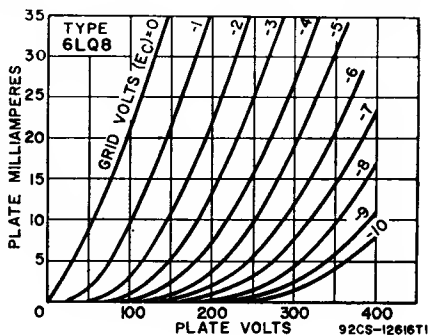
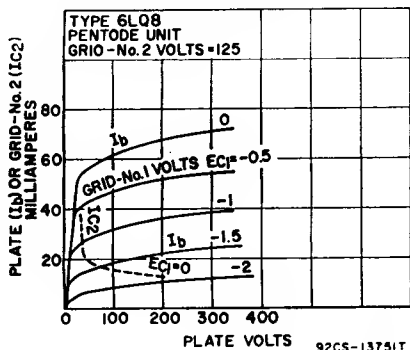
	Triode Unit	Pentode Unit	
Plate Voltage	300	300	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	300	volts
Grid-No.2 Voltage	—	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2	5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 150 volts	—	1	watts
For grid-No.2 voltages between 150 and 300 volts	—	See curve page 300	

CHARACTERISTICS

	Triode Unit	Pentode Unit	
Plate Supply Voltage	125	125	200
Grid-No.2 Supply Voltage	—	125	125
Cathode-Bias Resistor	68	82	68
Amplification Factor	46	—	—
Plate Resistance (Approx.)	4400	55000	75000
Transconductance	10400	21000	23000
Plate Current	15	16.5	20
Grid-No.2 Current	—	3.1	3.5
Grid-No.1 Voltage(Approx.) for plate current of 100 μ A	—6	—4.2	—4.2
			volts

MAXIMUM CIRCUIT VALUES

	Triode Unit	Pentode Unit	
Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.1	megohm
For cathode-bias operation	1	0.25	megohm



BEAM POWER TUBE

6LR6

35LR6

Duodecar type used as horizontal-deflection amplifier in color and black-and-white television receivers. An integral radiator-fin design dissipates heat uniformly. Outlines section, 16E; requires duodecar 12-contact socket. Type 35LR6 is identical with type 6LR6 except for heater ratings.

	6LR6 Parallel	35LR6 Series	
Heater Arrangement	6.3	35	volts
Heater Voltage (ac/dc)	2.5	0.45 $\pm$ 0.03	amperes
Heater Current	—	11	seconds
Heater Warm-up Time (Average)			
Heater-Cathode Voltage:			
Peak value	$\pm$ 200 max	$\pm$ 200 max	volts
Average value	100 max	100 max	volts

Class A₁ Amplifier

CHARACTERISTICS

	Triode†† Connection	Pentode Connection	
Plate Voltage	125	60	175
Grid-No.3 (Suppressor Grid) Voltage	—	115	110
Grid-No.2 (Screen-Grid) Voltage	125	0	—20
Grid-No.1 (Control-Grid) Voltage	—20	—	5300
Plate Resistance (Approx.)	—	—	—

Connected to cathode at socket	60	volts
	110	volts
	0	volts
	—	ohms