

Heater Voltage (ac/dc)	6LQ8	11LQ8	
Heater Current	6.3	10.9	volts
Heater Warm-up Time	0.7	0.45	ampere
Heater-Cathode Voltage:		11	seconds
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)

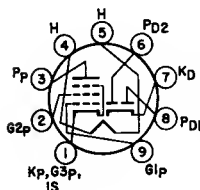
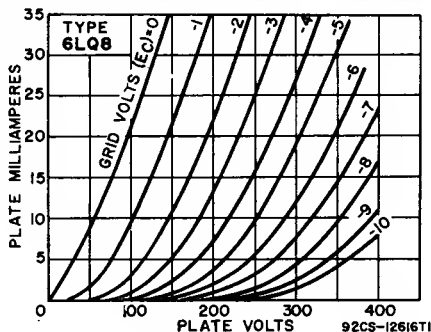
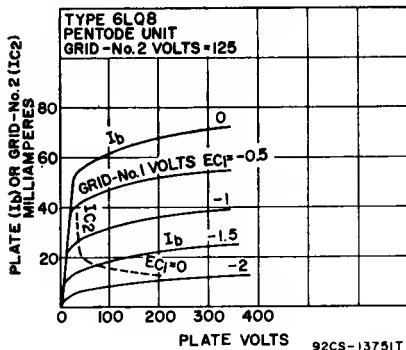
Plate Voltage	Triode Unit	Pentode Unit	volts
Grid-No.2 (Screen-Grid) Supply Voltage	300	300	volts
Grid-No.2 Voltage	—	300	See curve page 98
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2	5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 150 volts	—	1	watts
For grid-No.2 voltages between 150 and 300 volts	—	See curve page 98	

CHARACTERISTICS

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

MAXIMUM CIRCUIT VALUES

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



9RL

TWIN DIODE—
SHARP-CUTOFF PENTODE6LT8
8LT8

Miniature type used in television receiver applications. The pentode unit is used in low-frequency horizontal-oscillator applications. The diode units are used in horizontal afc discriminator circuits. Outlines section, 6B; requires miniature 9-contact socket. Type 8LT8 is identical with type 6LT8 except for heater ratings.

	6LT8	8LT8	
Heater Voltage	6.3	8.1	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Pentode Unit as Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve page 98	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Plate Dissipation	3.1	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 165 volts	0.65	watt
For grid-No.2 voltages between 165 and 33 volts	See curve page 98	

CHARACTERISTICS

Plate Voltage	125	volts
Grid No.3 (Suppressor Grid)	Connected to ground	
Grid-No.2 Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	200000	ohms
Transconductance	13000	μmhos
Plate Current	10	mA
Grid-No.2 Current	3.4	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	-3.5	volts

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance, for cathode-bias operation	1	megohm
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Diode Unit (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

Plate Current (Continuous Operation)	5	mA
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CHARACTERISTICS, Instantaneous Value

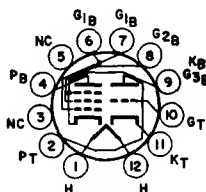
Tube Voltage Drop for plate current of 20 mA	5	volts
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6LU8

21LU8

MEDIUM-MU TRIODE— BEAM POWER TUBE

Duodecar type used as a combined vertical-deflection oscillator and vertical-deflection amplifier in color television receivers. Outlines section, 15D; requires duodecar 12-contact socket. Type 21LU8 is identical with type 6LU8 except for heater ratings.



12DZ

	6LU8 Parallel	21LU8 Series	
Heater Arrangement	45	21	volts
Heater Voltage	6.3	8.1	volts
Heater Current	1.5	0.45	ampere
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Class A₁ Amplifier

CHARACTERISTICS

	Triode Unit	Beam Power Unit	
Plate Voltage	250	45 135	120 volts
Grid-No.2 (Screen-Grid) Voltage	—	125 120	120* volts
Grid-No.1 (Control-Grid) Voltage	—4	0 -10	-10 volts
Amplification Factor	58	—	6.5
Plate Resistance (Approx.)	16000	—	12000 ohms
Transconductance	3600	—	9300 μmhos
Plate Current	2.3	200** 56	— mA
Grid-No.2 Current	—	20** 3	— mA
Grid-No.1 Voltage (Approx.):			
For plate current of 10 μA	-6.6	—	— volts
For plate current of 100 μA	—	—30	— volts
For plate current of 1 mA	—	-26	— volts

* Triode connection, Grid No.2 connected to plate at socket.

** This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.