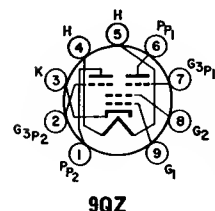


Plate Dissipation	2	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 150 volts	1.1	watts
For grid-No.2 voltages between 150 and 300 volts	See curve page 300	

MAXIMUM CIRCUIT VALUES

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

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).



9QZ

TWIN PENTODE

6LE8

10LE8, 15LE8

Miniature type used as combined color demodulator and matrix amplifier in color television receivers utilizing high-level demodulation systems. Outlines section, 6G; requires miniature 9-contact socket. Types 10LE8 and 15LE8 are identical with type 6LE8 except for heater ratings.

Heater Voltage (ac/dc)	6.3	10.0	15.0	volts
Heater Current	0.76	0.45	0.3	ampere
Heater Warm-up Time (Average)	—	11	11	seconds
Heater-Cathode Voltage:				
Peak value	+200, -300 max			volts
Average value	+100			volts
Direct Interelectrode Capacitances:				
Plate (Each Unit) to All Other Electrodes		3.7		pF
Grid No.1 to All Other Electrodes		15.5		pF
Grid No.3 (Each Unit) to All Other Electrodes		6		pF
Grid No.3 to Plate (Each Unit)		2.7		pF
Grid No.3 (Unit No.1) to Grid No.3 (Unit No.2)		0.1		pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

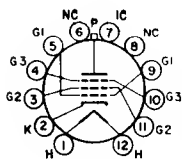
Plate Voltage (Each Unit)	300	volts
Grid-No.2 (Screen-Grid) Voltage	150	volts
Plate Dissipation (Each Unit)	2	watts
Grid-No.2 Input	2	watts

CHARACTERISTICS

	G ₁ Control	G ₂ Control	
Plate Voltage	100	100	volts
Grid-No.3 (Suppressor-Grid) Voltage	0	0	volts
Grid-No.2 Voltage	100	100	volts
Grid-No.1 (Control-Grid) Voltage, Negative-bias value	2.5	2.5	volts
Transconductance (Approx.)	5800	350	μmhos
Plate Resistance (Approx.)	50000	50000	ohms
Plate Current	8	7.6	mA
Grid-No.2 Current	15	14.5	mA
Grid-No.1 Voltage for plate current of 20 μA	-7.2	—	volts
Grid-No.1 Voltage for plate current of 100 μA	-6.3	—	volts
Grid-No.3 Voltage for plate current of 20 μA	—	-17.4	volts
Grid-No.3 Voltage for plate current of 100 μA	—	-16.5	volts

For replacement use type 6LF6/6LX6.

6LF6



12W6

BEAM POWER TUBE

6LF6/6LX6

20LF6

Duodeca type used as horizontal deflection amplifier in color television receivers. Outlines section, 16F; requires duodeca 12-contact socket. Type 20LF6 is identical with type 6LF6/6LX6 except for heater ratings.

	6LF6/ 6LX6	20LF6	
Heater Voltage (ac/dc)	6.3	20	volts
Heater Current	2.0	0.6	ampere
Peak Heater-Cathode Voltage	±275 max	±200 max	volts

Class A₁ Amplifier

CHARACTERISTICS

Plate Voltage	50	160	volts
Grid-No.3 (Suppressor-Grid) Voltage	0	0	volts
Grid-No.2 (Screen-Grid) Voltage	175	160	volts
Grid-No.1 (Control-Grid) Voltage	-10	0	volts
Plate Current	800	1400	mA
Grid-No.2 Current	70	45	mA

Horizontal-Deflection Amplifier

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

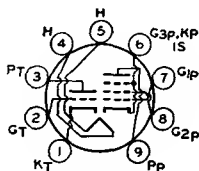
Plate Voltage	990	volts
Peak Positive-Pulse Plate Voltage*	8000	volts
Plate Dissipation	40	watts
Grid-No.3 Voltage	50	volts
Grid-No.2 Voltage	275	volts
Grid-No.2 Input	9	watts
Beam Plates Circuit Resistor	10000	ohms
Peak Negative-Pulse Grid-No.1 Voltage	550	volts
Bulb Temperatures	300	°C

Pulse duration must not exceed 22% of a horizontal scanning cycle (18 microseconds).

6LF8

HIGH-MU TRIODE—
SHARP-CUTOFF PENTODE

Miniature type used in video-amplifier stages of color and black-and-white television receivers. Outlines section, 6E; requires miniature 9-contact socket.



9DX

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.6	ampere
Heater Warm-up Time (Average)	11	seconds
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts

Direct Interelectrode Capacitances:

Triode Unit:		
Grid to Plate	2.2	pF
Grid to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	3.2	pF
Plate to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	1.8	pF
Pentode Unit:		
Grid No.1 to Plate	0.06 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	10	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	3.6	pF
Pentode Grid No.1 to Triode Plate	0.008 max	pF
Pentode Plate to Triode Plate	0.15 max	pF

Class A Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	330	volts
Grid-No.2 Voltage	—	See curve page 300	
Grid-No.1 (Control-Grid) Voltage:			
Positive-bias value	4	0	volts
Negative-bias value	-55	-55	volts
Grid-No.1 Current	8	0	mA
Plate Dissipation	1.1	3.75	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	1.1	watts
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 300	