

27

Refer to chart at end of section.

27GB5/PL500

Refer to type 6GB5/EL500.

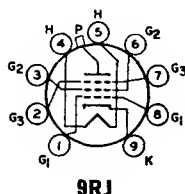
29KQ6/PL521

Refer to chart at end of section.

29LE6

BEAM POWER TUBE

Magnoval type used as horizontal-deflection amplifier in television receivers. Outlines section, 40A; requires magnoval 9-contact socket.



9RJ

Heater Voltage	29	volts
Heater Current	0.3	ampere
Heater-Cathode Voltage:		
Peak value	± 240	volts
Average value	± 240	volts

Class A₁ Amplifier

CHARACTERISTICS

Plate Voltage	40	50	volts
Grid-No.3 (Suppressor-Grid) Voltage	0	0	volts
Grid-No.2 (Screen-Grid) Voltage	135	200	volts
Grid-No.1 (Control-Grid) Voltage	0	-12	
Plate Current	450	550†	mA
Grid-No.2 Current	35	50†	mA
Grid-No.1 Voltage for plate current of 50 μ A	-55 max.	—	volts

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

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	275	volts
Peak Positive-Pulse Plate Voltage#	6500	volts
Peak Negative-Pulse Plate Voltage#	1650	volts
Grid-No.3 Voltage	70	volts
Grid-No.2 Voltage	275	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Average Cathode Current	275	mA

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance	0.5	megohm
Grid-No.1-Circuit Resistance, for horizontal-deflection circuit	2.2	megohms

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

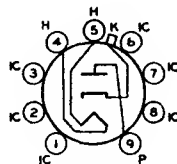
30

Refer to chart at end of section.

30AE3/
PY88

DIODE

Miniature type used as booster diodes in line-time-base circuits of transformerless television receivers. Outlines section, 7D; requires miniature 9-contact socket. Heater: volts (ac/dc), 30; amperes, 0.3; maximum heater-cathode volts, 6600 peak.



9CB

MAXIMUM RATINGS (Design-Center Values)

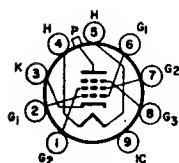
Supply Voltage at zero current	550	volts
Supply Voltage	250	volts
Peak Plate Current	550	mA

Average Plate Current	220	mA
Plate Dissipation	5	watts
Peak Negative-Pulse Plate Voltage*	6000#	volts

* Under no conditions should an absolute maximum value of 7500 volts be exceeded.

The pulse duration must not exceed 22 per cent of a cycle, or a maximum of 18 micro-seconds.

Refer to chart at end of section.	30AG11
Refer to chart at end of section.	30JZ6
Refer to type 6KD6.	30KD6
Refer to chart at end of section.	30MB6
Refer to chart at end of section.	31
Refer to chart at end of section.	31AL10
Refer to chart at end of section.	31JS6A
Refer to type 6JS6C.	31JS6C
Refer to type 6MJ6/6LQ6/6JE6C.	31LQ6
Refer to type 6LR8.	31LR8

**9QL****BEAM POWER TUBE****31LZ6**

Novar type used for horizontal-deflection amplifier in color television receivers. Outlines section, 32C; requires novar 9-contact socket.

Heater Voltage (ac/dc)	31	volts
Heater Current	0.45	ampere
Heater Warm-up Time	11	seconds
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.6	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	22	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	11	pF

Class A₁ Amplifier

CHARACTERISTICS	Triode† Connection	Pentode Connection	
Plate Voltage	125	55	175 volts
Peak Positive-Pulse Plate Voltage#	—	5000	volts
Grid No.3 (Suppressor Grid)	—	30	30 volts
Grid-No.2 (Screen-Grid) Voltage	125	130	125 volts
Grid-No.1 (Control-Grid) Voltage	—25	0	—25 volts
Amplification Factor	3	—	—
Plate Resistance (Approx.)	—	—	6000 ohms
Transconductance	—	—	11000 μmhos
Plate Current	—	800††	140 mA
Grid-No.2 Current	—	56††	2 mA
Grid-No.1 Voltage for plate current of 1 mA	—	—125	—50 volts

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Supply Voltage	990	volts
Peak Positive-Pulse Plate Voltage#	7500	volts
Peak Negative-Pulse Plate Voltage	1100	volts
DC Grid-No.3 Voltage	75	volts