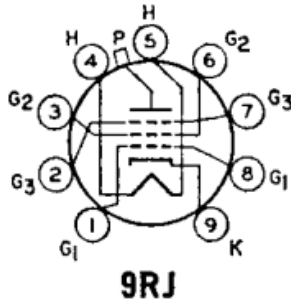


POWER PENTODE

6KG6A/ EL509

40KG6A/PL509



Magnoval type used as a horizontal-deflection amplifier in color television receivers. Outlines section, 38A; requires 9-contact magnoval socket. Type 40KG6A/PL509 is identical with type 6KG6A/EL509 except for heater ratings.

	6KG6A/ EL509	40KG6A/ PL509	
Heater Voltage (ac/dc)	6.3	40	volts
Heater Current	2	0.3	amperes
Peak Heater-Cathode Voltage		250	volts
Direct Interelectrode Capacitances:			
Plate to Grid-No.1	2.5		pF
Grid-No.1 to Heater	0.2		pF

Class A₁ Amplifier

CHARACTERISTICS

Plate Voltage	45	160	volts
Grid-No.3 Voltage‡	0	0	volts
Grid-No.2 Voltage	160	160	volts
Grid-No.1 Voltage	0	0	volts
Plate Current ^a	1000 (min.)	1400	mA
Grid-No.2 Current ^a	—	45	mA

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Plate Supply Voltage	700	volts
Peak Positive-Pulse Plate Voltage*	7000	volts
Grid-No.2 Voltage (zero-current)	700	volts
Grid-No.2 Voltage	250	volts
Plate Dissipation (Absolute-Maximum Value)	34	watts
Grid-No.2 Input	7	watts
Cathode Current	500	mA

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.25	megohm
For cathode-bias operation	2.2	megohms

‡ In horizontal-deflection service, 15 volts may be applied to grid-No.3 to minimize snivets.

^a These values can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

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