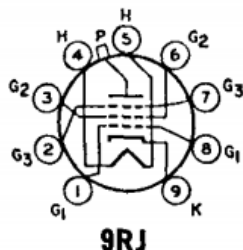


## POWER PENTODE

# 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 A<sub>1</sub> 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 <sup>a</sup> .....	1000 (min.)	1400	mA
Grid-No.2 Current <sup>a</sup> .....	—	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.

\* 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).