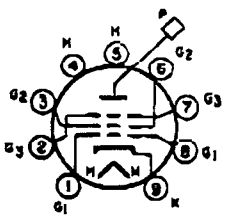
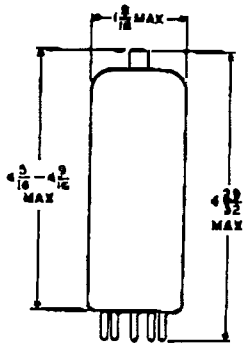
AMPEREX TUBE TYPE 6KG6

The 6KG6 is an output pentode designed for use in horizontal deflection circuits of color television receivers operating at supply voltages of 240 to 270 volts.



PIN CONNECTIONS

1- GRID NO 1
2- GRID NO. 3
3- GRID NO. 2
4- HEATER
5- HEATER
6- GRID NO. 2
7- GRID NO 3
8- GRID NO. 1
9- CATHODE
P- CAP-PLATE



GENERAL CHARACTERISTICS

MECHANICAL

Base	magnoval
Dimensions	see outline drawing

ELECTRICAL

Heating	indirect by AC or DC, series supply
Heater Voltage	6.3 volts
Heater Current	2 amps
Interelectrode Capacitances	
Plate to Grid No. 1	2.5 pf
Grid No. 1 to Heater	200 mpf

MAXIMUM RATINGS

Plate Voltage (Zero Current)	700 volts
Peak Plate Voltage	7000 volts
Grid No. 2 Voltage (Zero Current)	700 volts
Grid No. 2 Voltage	250 volts
Plate Dissipation[1]	34 watts
Grid No. 2 Dissipation	7 watts
Cathode Current	500 ma
Cathode to Heater Voltage	250 volts
Grid No. 1 Resistance	
Fixed Bias	0.25 megohm
Stabilized Circuits	2.2 megohms

[1] A plate dissipation of 34 watts should not be exceeded under the worst probable operating conditions at normal picture width.

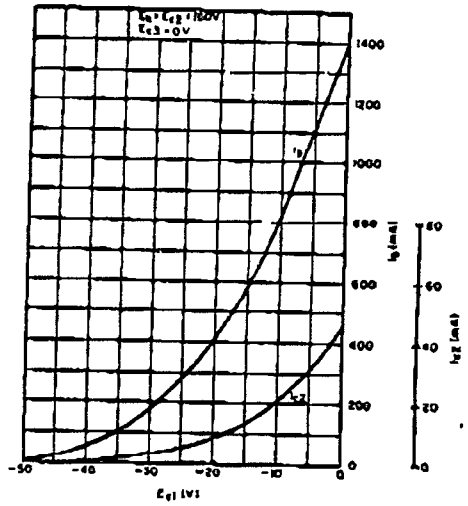
6KG6

TYPICAL CHARACTERISTICS[2]

Plate Voltage	160	45 volts
Grid No. 2 Voltage	160	160 volts
Grid No. 1 Voltage	0	0 volts
Plate Current	1400	1000 (min.) ma
Grid No. 2 Current	45	-- ma
Grid No. 3 Voltage	0	0 volts

TYPICAL OPERATION[3]

Plate Voltage (End of Scan)[4]	60V + 0.1 V_b
Peak Plate Current	1 amp
Plate Current	440 ma
Grid No. 2 Current	40 ma
Grid No. 2 Voltage	175 volts
Grid No. 3 Voltage[5]	0 volts



[2] In order not to exceed the maximum ratings for Plate and Grid No. 2 Dissipation, these characteristics should be measured under pulse conditions.

[3] The minimum required cut off voltage during flyback is 170 volts at:
- Plate Voltage = 7000 volts
- Grid No. 2 Voltage = 175 volts
- Grid No. 1 Impedance = 1 k ohm at horisontal frequency.

[4] The value 0.1V_b is included to allow for 10% variation of the supply voltage. When selecting supply voltage care should be taken not to exceed the maximum rated plate cut off voltage.

[5] For optimum suppression of Barkhausen oscillations and snivets, the beam plates may be connected to a voltage of +15 volts.