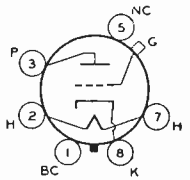
6K5-GT

HIGH-MU TRIODE

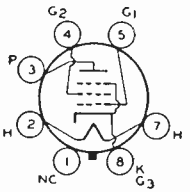
Glass octal type used as voltage amplifier in radio equipment. Outline 23, OUTLINES SECTION. Tube requires octal socket. Heater volts (ac/dc), 6.3; amperes, 0.3. Characteristics as class A_1 amplifier: plate volts, 250 *max*; grid volts, −3; amplification factor, 70; plate resistance, 50000 ohms; transconductance, 1400 μmhos; plate ma., 1.1. This type is used principally for renewal purposes



6K6-GT

POWER PENTODE

Glass octal type used in output stage of radio receivers. It is capable of delivering moderate power output with relatively small input voltage. Tube may be used singly or in push-pull.



HEATER VOLTAGE (AC/DC)	6.3	volts
HEATER CURRENT	0.4	ampere
DIRECT INTERELECTRODE CAPACITANCES (Approx. With no external shield):		
Grid No.1 to Plate	0.5	μμf
Input	5.5	μμf
Output	6.0	μμf

Maximum Ratings: SINGLE-TUBE CLASS A_1 AMPLIFIER

PLATE VOLTAGE	315 *max*	volts
GRID-NO.2 (SCREEN) VOLTAGE	285 *max*	volts
PLATE DISSIPATION	8.5 *max*	watts
GRID-NO.2 INPUT	2.8 *max*	watts
GRID-NO.1 (CONTROL-GRID) VOLTAGE, Positive Bias Value	0 *max*	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 *max*	volts
Heater positive with respect to cathode	90 *max*	volts

Typical Operation:

Plate Voltage	100	250	315	volts
Grid-No.2 Voltage	100	250	250	volts
Grid-No.1 (Control-Grid) Voltage	−7	−18	−21	volts
Peak AF Grid-No.1 Voltage	7	18	21	volts
Zero-Signal Plate Current	9	32	25.5	ma
Maximum-Signal Plate Current	9.5	33	28	ma
Zero-Signal Grid-No.2 Current	1.6	5.5	4.0	ma
Maximum-Signal Grid-No.2 Current	3	10	9	ma
Plate Resistance (Approx.)	104000	90000	110000	ohms
Transconductance	1500	2300	2100	μmhos
Load Resistance	12000	7600	9000	ohms
Total Harmonic Distortion	11	11	15	per cent
Maximum-Signal Power Output	0.35	3.4	4.5	watts

Maximum Ratings: PUSH-PULL CLASS A_1 AMPLIFIER

(Same as for Single-Tube Class A_1 Amplifier.)

Typical Operation (Values are for two tubes):	*Fixed Bias*	*Cathode Bias*	
Plate Voltage	285	285	volts
Grid-No.2 Voltage	285	285	volts
Grid-No.1 (Control-Grid) Voltage	−25.5	−	volts
Cathode Resistor	−	400	ohms
Peak AF Grid-No.1-to-Grid-No.1 Voltage	51	51	volts
Zero-Signal Plate Current	55	55	ma
Maximum-Signal Plate Current	72	61	ma
Zero-Signal Grid-No.2 Current	9	9	ma
Maximum-Signal Grid-No.2 Current	17	13	ma
Effective Load Resistance (Plate-to-plate)	12000	12000	ohms
Total Harmonic Distortion	6	4	per cent
Maximum-Signal Power Output	10.5	9.8	watts