

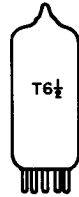
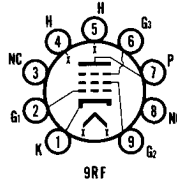
OPERATING CHARACTERISTICS FOR USE AS MIXER

Plate Voltage	170	170 Volts
Grid No. 2 Voltage	170	170 Volts
Grid No. 1 Circuit Resistance	0.1	0.1 Megohm
Cathode Resistor	330	820 Ohms
Oscillator Voltage (RMS)	3.5	3.5 Volts
Plate Current	6.5	5.2 Ma
Grid No. 2 Current	2.0	1.5 Ma
Grid No. 1 Current	25	0 μ a
Conversion Conductance	2200	2100 μ mhos
Plate Resistance	0.8	0.87 Megohm

Color Television Type

CHROMA BANDPASS AMPLIFIER
COLOR DEMODULATOR or
VIDEO AMPLIFIER
9KC6**Frame Grid Pentode**

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	9RF
Outline	6-3
Maximum Diameter	0.875 In.
Maximum Seated Height	2.375 In.
Maximum Overall Height	2.625 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage	8.7 Volts
Heater Current	450 Ma
Heater Warm-up Time	11 Seconds
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak	200 Volts
Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak	200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (g_1 to p)	0.20 Pf
Grid No. 3 to Plate (g_3 to p)	2.2 Pf
Grid No. 1 to All g_1 to ($h + k + g_2 + g_3 + p$)	16.5 Pf
Grid No. 2 to All g_2 to ($h + k + g_1 + g_3 + p$)	9.5 Pf
Grid No. 3 to All g_3 to ($h + k + g_1 + g_2 + p$)	7.5 Pf
Plate to All p to ($h + k + g_1 + g_2 + g_3$)	3.0 Pf
Grid No. 1 to Grid No. 2 (g_1 to g_2)	4.7 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage	400 Volts
Grid No. 2 Supply Voltage	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Positive Grid No. 3 Voltage	0 Volt
Negative Grid No. 3 Voltage	100 Volts
Positive Grid No. 1 Voltage	0 Volt
Plate Dissipation	7.0 Watts
Grid No. 2 Dissipation	1.5 Watts
Grid No. 1 Circuit Resistance	
Self Bias	0.5 Megohm
Fixed Bias	0.25 Megohm
Grid No. 3 Circuit Resistance	1.0 Megohm

Control grid to cathode spacing of this type is of such low order of magnitude as to preclude the use of voltage between these elements of more than 50 volts dc or peak ac in commercial tube checkers and shorts indicating devices, particularly where mechanical excitation of the tube is employed.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250	250 Volts
Grid No. 2 Voltage	150	100 Volts
Grid No. 1 Voltage	0	-1.0 Volt
Grid No. 3 Voltage (Referred to Negative End of R_k)	0	-25 Volts
Cathode Resistor	56	0 Ohms
Plate Current	18	1.0 Ma
Grid No. 2 Current	9	13.0 Ma
Transconductance (Grid No. 1 to Plate)	24,000	— μ mhos
Transconductance (Grid No. 3 to Plate)	500	— μ mhos
Plate Resistance (Approx.)	55,000	— Ohms
Grid No. 1 Voltage for $I_b = 100 \mu$ a ($R_k = 0$)	-4.1	— Volt

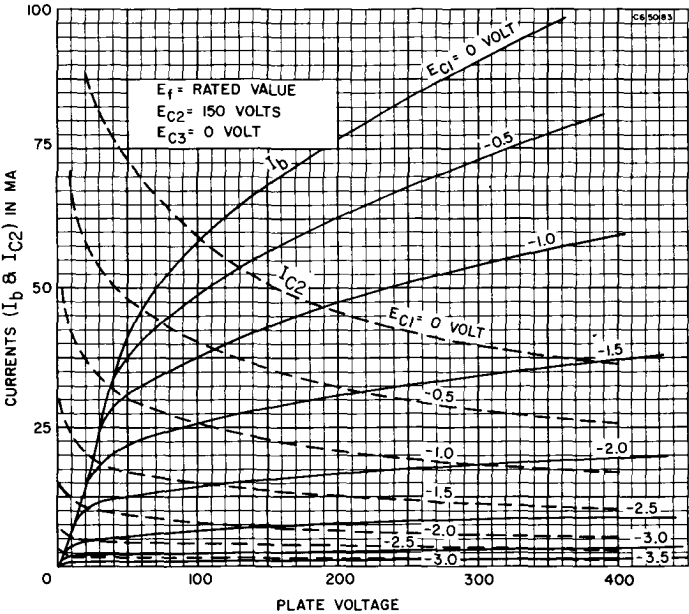
INSTANTANEOUS PLATE KNEE CHARACTERISTICS⁽¹⁾

$E_b = 50$ V, $E_{c2} = 100$ V, and $E_{c1} = 0$ V
 $I_b = 25$ Ma, and $I_{c2} = 25$ Ma

NOTE:

(1) Applied for short interval (2 Sec. Max.) so as not to damage tube.

AVERAGE PLATE CHARACTERISTICS

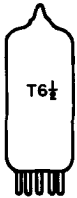
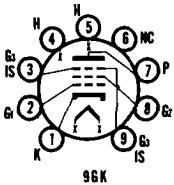


9KX6

Color Television Type
VIDEO AMPLIFIER

Sharp Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9GK
Outline 6-3
Maximum Diameter 0.875 In.
Maximum Seated Height 2.375 In.
Maximum Overall Height 2.625 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage
Heater Current
Heater Warm-up Time
Maximum Heater-Cathode Voltage
Heater Negative with Respect to Cathode
Total DC and Peak
Heater Positive with Respect to Cathode
DC
Total DC and Peak

8.7 Volts
450 Ma
11 Seconds

200 Volts

100 Volts
200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (g1 to p)
Input: g1 to (k + g3 + IS + g2 + h)
Output: p to (k + g3 + IS + g2 + h)

0.12 Pf
17.5 Pf
4.0 Pf