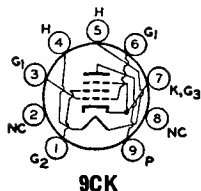


BEAM POWER TUBE

6CM6



9CK

Miniature type used as vertical-deflection amplifier in color and black-and-white television receivers and as audio power amplifier in radio and television receivers. Outlines section, 6E; requires miniature 9-contact socket. For typical operation and maximum circuit values as class A₁ amplifier, refer to type 6V6GTA. For curves of average plate characteristics, refer to type 6AQ5A.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.45	ampere
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.7	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	8	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	8.5	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	315	volts
Grid-No.2 (Screen-Grid) Voltage	285	volts
Plate Dissipation	12	watts
Grid-No.2 Input	2	watts

CHARACTERISTICS (Triode Connected)

Plate Voltage	250	volts
Grid-No.1 Voltage	—12.5	volts
Amplification Factor	9.8	
Plate Resistance (Approx.)	1960	ohms
Transconductance	5000	μmhos
Plate Current	49.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 0.5 mA	—37	volts

Vertical-Deflection Amplifier

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

	Triode Connection*	Pentode Connection	
MAXIMUM RATINGS (Design-Center Values)			
DC Plate Voltage	315	315	volts
Peak Positive-Pulse Plate Voltage# (Absolute Maximum)	2000 ^Δ	2000 ^Δ	volts
DC Grid-No.2 (Screen-Grid) Voltage	—	285	volts
Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage	250	250	volts
Peak Cathode Current	120	120	mA
Average Cathode Current	40	40	mA
Plate Dissipation	9	8	watts
Grid-No.2 Input	—	1.75	watts
MAXIMUM CIRCUIT VALUES			
Grid-No.1-Circuit Resistance, for cathode-bias operation	2.2	2.2	megohms

* Grid No.2 connected to plate.

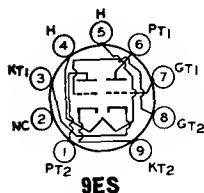
Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).

Δ Under no circumstances should this absolute value be exceeded.

6CM7

8CM7

MEDIUM-MU DUAL TRIODE



9ES

Miniature type used as combined vertical-deflection oscillator and vertical-deflection amplifier in black-and-white television receivers. Unit No.1 is used as a conventional blocking oscillator in vertical-deflection circuits, and unit No.2 as a vertical-deflection amplifier. Outlines section, 6E; requires miniature 9-contact socket. Types 8CM7 is identical with type 6CM7 except for heater ratings.