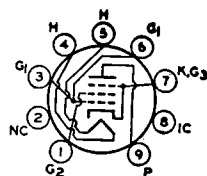


6CZ5

5CZ5

BEAM POWER TUBE

Miniature type used as a vertical-deflection amplifier in high-efficiency deflection circuits of color and black-and-white television receivers and in the audio output stage of television and radio receivers. Outlines section, 6G; requires miniature 9-contact socket. Type 5CZ5 is identical with type 6CZ5 except for heater ratings.



9HN

	5CZ5	6CZ5	
Heater Voltage (ac/dc)	4.7	6.3	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Grid No.1 to Plate		0.4 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3		9	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3		6	pF

Class A₁ Amplifier**CHARACTERISTICS**

Plate Voltage	75	250	volts
Grid-No.2 Voltage	250	250	volts
Grid-No.1 Voltage	0	-15	volts
Plate Resistance	—	73000	ohms
Transconductance	—	4800	μmhos
Plate Current	130*	46	mA
Grid-No.2 Current	16*	4.6	mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μA	—	-40	volts

Vertical-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Voltage	350	volts
Peak Positive-Pulse Plate Voltage#	2200	volts
Grid-No.2 (Screen-Grid) Voltage	315	volts
Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage	275	volts
Peak Cathode Current	155	mA
Average Cathode Current	45	mA
Plate Dissipation	10	watts
Grid-No.2 Input	2.2	watts
Bulb Temperature (At hottest point)	250	°C

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.5	megohm
For cathode-bias operation	1	megohm

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

* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

6D4 Refer to chart at end of section.**6D6** Refer to chart at end of section.**6D7** Refer to chart at end of section.**6D8G** Refer to chart at end of section.**6D10** Refer to chart at end of section.**6DA4** Refer to chart at end of section.
For replacement use type 6DM4A/6DA4.**6DB5** Refer to chart at end of section.