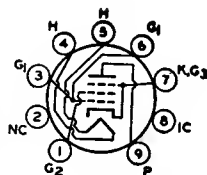


6CZ5**5CZ5****BEAM POWER TUBE**

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.