

9GR

BEAM POWER TUBE

Miniature type used as vertical-deflection-amplifier tube in television receivers. Outlines section, 6F; requires miniature 9-contact socket. Type 12DB5 is identical with type 6DB5 except for heater ratings.

6DB5

12DB5

	6DB5	12DB5	
Heater Voltage (ac/dc)	6.3	12.6	volts
Heater Current	1.2	0.6	ampere
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	300	volts
Grid-No.2 (Screen-Grid) Voltage	150	volts
Plate Dissipation	10	watts
Grid-No.2 Input	1.25	watts

TYPICAL OPERATION

Plate Supply Voltage	200	volts
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	180	ohms
Peak AF Grid-No.1 Voltage	8.5	volts
Zero-Signal Plate Current	46	mA
Maximum-Signal Plate Current	47	mA
Zero-Signal Grid-No.2 Current	2.2	mA
Maximum-Signal Grid-No.2 Current	8.5	mA
Plate Resistance (Approx.)	28000	ohms
Transconductance	8000	μmhos
Load Resistance	4000	ohms
Total Harmonic Distortion	10	per cent
Maximum-Signal Power Output	3.8	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1 Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	2.2	megohms

Vertical-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Center Values)

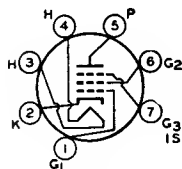
DC Plate Voltage	300	volts
Peak Positive-Pulse Plate Voltage (Absolute Maximum)*	2000*	volts
DC Grid-No.2 (Screen-Grid) Voltage	150	volts
Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage	250	volts
Peak Cathode Current	200	mA
Average Cathode Current	55	mA
Plate Dissipation	10	watts
Grid-No.2 Input	1.25	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	2.2	megohms

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

* Under no circumstances should this absolute maximum value be exceeded.



7CM

SHARP-CUTOFF PENTODE

6DC6

Miniature type used in the gain-controlled picture if stages of color and black-and-white television receivers and as an rf amplifier in the tuners of such receivers. Outlines section, 5C; requires 7-contact miniature socket.