

6CA7/ EL34

POWER PENTODE

Glass octal types used in the output stage of audio-frequency amplifiers. Maximum dimensions: over-all length, $4\frac{7}{16}$ inches; seated height, $3\frac{7}{8}$ inches; diameter, $1\frac{1}{2}$ inches. Tube requires octal socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	1.5	amperes
Peak Heater-Cathode Voltage	± 200 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	1	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	15.5	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	7.2	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	800	volts
Grid-No.2 (Screen-Grid) Voltage	425	volts
Grid-No.2 Input	8	watts
Cathode Current	150	mA
Plate Dissipation	25	watts

TYPICAL OPERATION

Plate Voltage	265	volts
Grid-No.2 Voltage	250	volts
Grid-No.1 (Control-Grid) Voltage	-13.5	volts
Peak AF Grid-No.1 Voltage	12.3	volts
Zero-Signal Plate Current	100	mA
Zero-Signal Grid-No.2 Current	15	mA
Transconductance	11000	μ mhos
Plate Resistance	15000	ohms
Load Resistance	2000	ohms
Maximum-Signal Power Output	11	watts
Total Harmonic Distortion	10	per cent

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance, for cathode-bias operation	0.7	megohm
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Push-Pull Class AB₁ Amplifier

MAXIMUM RATINGS (Same as for Class A₁ Amplifier)

TYPICAL OPERATION (Values are for two tubes)

Plate Supply Voltage	450	volts
Grid-No.2 Supply Voltage	450	volts
Cathode-Bias Resistor	232	ohms
Grid-No.2 Resistor	1000	ohms
Peak AF Grid-No.1 to Grid-No.1 Voltage	38.2	volts
Zero-Signal Plate Current	120	mA
Maximum-Signal Plate Current	143	mA
Zero-Signal Grid-No.2 Current	20	mA
Maximum-Signal Grid-No.2 Current	44	mA
Effective Load Resistance (Plate-to-plate)	6500	ohms
Total Harmonic Distortion	5.1	per cent
Maximum-Signal Power Output	40	watts

6CB5

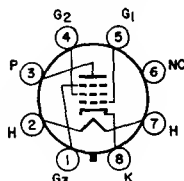
Refer to chart at end of section.

6CB5A

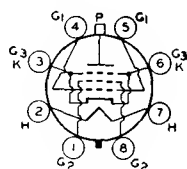
BEAM POWER TUBE

Glass octal type used as horizontal-deflection amplifier in color and black-and-white television receivers. Outlines section, 21B; requires octal socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	2.5	amperes
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts



8ET



8GD