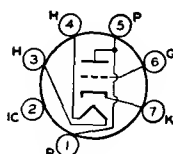


6C4

POWER TRIODE

Miniature type used as a cascode amplifier in vhf color local oscillator in FM and other high-frequency circuits and as a class C rf amplifier. Outlines section, 5C; requires miniature 7-contact socket. For typical operation as a resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section. For additional curve of plate characteristics, refer to type 12AU7A.



6BG

Heater Voltage (ac/dc)	6.3	volts	
Heater Current	0.15	ampere	
Heater-Cathode Voltage:			
Peak value	±200 max	volts	
Average value	100 max	volts	
Direct Interelectrode Capacitances (Approx.)	Unshielded	Shielded ^Δ	
Grid to Plate	1.6	1.4	pF
Grid to Cathode and Heater	1.8	1.8	pF
Plate to Cathode and Heater	1.3	2.5	pF

^Δ With external shield connected to cathode.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	300 max	volts
Plate Dissipation	3.5 max	watts

CHARACTERISTICS

Plate Voltage	100	250	volts
Grid Voltage*	0	-8.5	volts
Amplification Factor	19.5	17	
Plate Resistance (Approx.)	6250	7700	ohms
Transconductance	3100	2200	μmhos
Plate Current	11.8	10.5	mA
Grid Voltage (Approx.) for plate current of 10 μA	-10	-25	volts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:		
For fixed bias operation	0.25	megohm
For cathode-bias operation	1	megohm

* Transformer- or impedance-type input coupling devices are recommended to minimize resistance in the grid circuit.

RF Power Amplifier and Oscillator—Class C Telegraphy

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	300	volts
Grid Voltage	-50	volts
Plate Current	25	mA
Grid Current	5	watts
Plate Dissipation	8	mA

