

ance-coupled amplifier, refer to **Resistance-Coupled Amplifier** section. Type 8CN7 is identical with type 6CN7 except for heater ratings.

Heater Voltage (ac/dc):			
Series	6CN7	8CN7	volts
Parallel	6.3	8.4	volts
Heater Current:			
Series	0.3	0.225	ampere
Parallel	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:			
Triode Unit:			
Grid to Plate		1.8	pF
Grid to Cathode and Heater		1.5	pF
Plate to Cathode and Heater		0.5	pF
Diode Units:			
Diode-No.1 Plate to Cathode of Diodes No.1 and No. 2, Heater, and Internal Shield		3.6	pF
Diode-No.2 Plate to Cathode of Diodes No.1 and No. 2, Heater, and Internal Shield		3.6	pF
Triode Grid to Either Diode Plate		0.006	pF

Triode Unit as Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	1.1	watt

CHARACTERISTICS

Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	70	70	
Plate Resistance (Approx.)	54000	58000	ohms
Transconductance	1300	1200	μmhos
Plate Current	0.8	1	mA

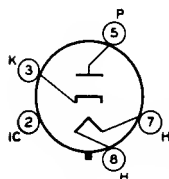
Diode Units

MAXIMUM RATINGS (Design-Maximum Values)

Plate Current (Each Unit)	5.5	mA
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HALF-WAVE VACUUM RECTIFIER

6CQ4



4CG

Octal type used as damper tube in horizontal-deflection circuits of black-and-white television receivers. Outlines section, 13G; requires octal socket. Socket terminals 1, 2, 4, and 6 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated. Heater: volts (ac/dc), 6.3; amperes, 1.6.

Damper Service

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

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Current#	5500	volts
Peak Plate Current	1200	mA
Average Plate Current	190	mA
Plate Dissipation	6.5	watts
Heater-Cathode Voltage:		
Peak value	+300	—5500
Average value	+100	—900

CHARACTERISTICS, Instantaneous Value

Tube Voltage Drop for plate current of 250 mA	25	volts
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Pulse duration must not exceed 15% of a horizontal cycle (10 microseconds).