

	4BQ7A	5BQ7A	6BQ7A	
Heater Voltage (ac/dc)	4.2	5.6	6.3	volts
Heater Current	0.6	0.45	0.4	ampere
Heater Warm-up Time (Average)	11	11	—	seconds
Heater-Cathode Voltage:				
Peak value	±200*max	±200*max	±200*max	volts
Average value	100 max	100 max	100 max	volts
Direct Interelectrode Capacitances:*		Unit No.1	Unit No.2	
Grid to Plate		1.2	1.2	pF
Grid to Cathode, Heater, and Internal Shield		2.6	—	pF
Cathode to Grid, Heater, and Internal Shield		—	5	pF
Plate to Cathode, Heater, and Internal Shield		1.2	—	pF
Plate to Grid, Heater, and Internal Shield		—	2.2	pF
Plate to Cathode		0.12	0.12	pF
Heater to Cathode		2.6	2.6	pF
Plate of Unit No.1 to Plate of Unit No.2			0.010 max	pF
Plate of Unit No.2 to Plate and Grid of Unit No.1			0.024 max	pF

* Rating may be high as 300 volts under cutoff conditions, when tube is used as a cascode amplifier, the two units are connected in series, and heater is negative with respect to cathode.

* With external shield connected to internal shield.

Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Center Values)

Plate Supply Voltage	250*	volts
Cathode Current	20	mA
Plate Dissipation	2	watts

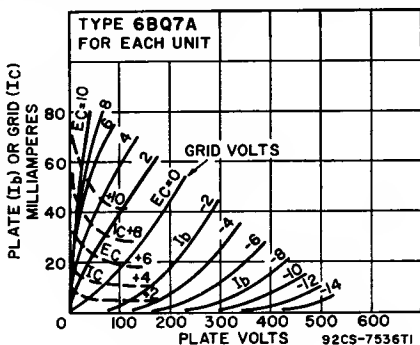
CHARACTERISTICS

Plate Supply Voltage	150	volts
Cathode-Bias Resistor	220	ohms
Amplification Factor	38	
Plate Resistance (Approx.)	5900	ohms
Transconductance	6400	μmhos
Plate Current	9	mA
Grid Voltage (Approx.):		
For plate current of 100 μA	-6.5	volts
For plate current of 10 μA	—	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance	0.5	megohm
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* Rating may be high as 300 volts under cutoff conditions, when tube is used as a cascode amplifier, the two units are connected in series, and heater is negative with respect to cathode.



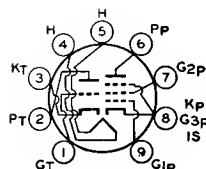
Refer to chart at end of section.

6BR8

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

6BR8A

5BR8



9FA

Miniature type used in color and black-and-white television receiver applications. Especially useful as combined triode oscillator and pentode mixer in vhf television tuners. Outlines section, 6B; requires miniature 9-contact socket. Except for basing arrangement and grid-No.1-to-plate capacitance of pentode unit, types 5BR8 and 6BR8A are identical with types 5U8 and 6U8A, respectively.