

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

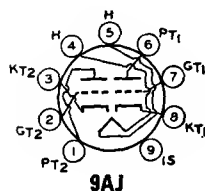
For fixed-bias operation 0.25 megohm

For cathode-bias operation 1 megohm

6BZ7

4BZ7

MEDIUM-MU TWIN TRIODE



9AJ

Miniature type used as a cascode amplifier in vhf color and black-and-white television tuners and in push-pull cathode-drive rf amplifiers. Outlines section, 6B; requires miniature 9-contact socket. For typical operation as a resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section. Type 4BZ7 is identical with type 6BZ7 except for heater ratings.

	4BZ7	6BZ7	
Heater Voltage (ac/dc)	4.2	6.3	volts
Heater Current	0.6	0.4	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
Direct Interelectrode Capacitances:			
Grid to Plate (Each Unit)		1.2	pF
Grid to Cathode, Heater, and Internal Shield (Unit No.1)		2.6	pF
Plate to Cathode, Heater, and Internal Shield (Unit No.1)		1.2	pF
Plate to Cathode (Each Unit)		0.12	pF
Heater to Cathode (Each Unit)		2.6	pF
Cathode to Grid, Heater, and Internal Shield (Unit No.2)		5	pF
Plate to Grid, Heater, and Internal Shield (Unit No.2)		2.2	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 as 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.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

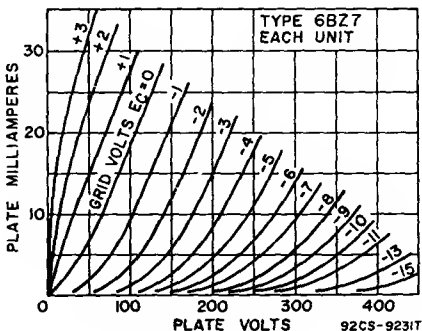
Plate Voltage	250*	volts
Cathode Current	20	mA
Plate Dissipation	2	watts

CHARACTERISTICS

Plate Supply Voltage	150	volts
Cathode-Bias Resistor	220	ohms
Amplification Factor	36	
Plate Resistance (Approx.)	5300	ohms
Transconductance	6800	μmhos
Plate Current	10	mA
Grid Voltage (Approx.) for plate current of 100 μA	—7	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance	0.5	megohm
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Refer to chart at end of section.

6BZ8