

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

Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	150	volts
Cathode Current	20	mA
Plate Dissipation	2	watts

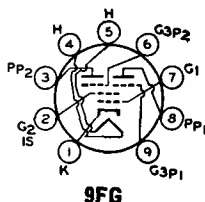
CHARACTERISTICS

Plate-Supply Voltage	150	volts
Cathode-Bias Resistor	220	ohms
Amplification Factor	36	
Plate Resistance (Approx.)	5000	ohms
Transconductance	7200	μmhos
Plate Current	10	mA
Grid Voltage (Approx.) for plate current of 10 μA*	—7	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance	0.5	megohm
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* This value applies to Unit No.2 only.



SHARP-CUTOFF TWIN PENTODE

6BU8

3BU8/3GS8
4BU8/4GS8

Miniature type used as combined sync separator, sync clipper, and agc amplifier tube in color and black-and-white television receivers. Outlines section, 6E; requires miniature 9-contact socket. Types 3BU8/3GS8 and 4BU8/4GS8 are identical with type 6BU8 except for heater ratings.

	3BU8/3GS8	4BU8/4GS8	6BU8	
Heater Voltage (ac/dc)	3.15	4.2	6.3	volts
Heater Current	0.6	0.45	0.3	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:				
Grid No.3 to Plate (Each Unit)			1.9	pF
Grid No.1 to All Other Electrodes			6	pF
Grid No.3 to All Other Electrodes (Each Unit)			3.6	pF
Plate to All Other Electrodes (Each Unit)			3	pF
Grid No.3 of Unit No.1 to Grid No.3 of Unit No.2			0.015 max	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage (Each Unit)	300	volts
Grid-No.3 (Suppressor-Grid) Voltage (Each Unit):		
Peak positive value	50	volts
DC negative value	50	volts
DC positive value	3	volts
Grid-No.2 (Screen-Grid) Voltage	150	volts
Grid-No.1 (Control-Grid) Voltage, Negative bias value	50	volts
Cathode Current	12	mA
Plate Dissipation (Each Unit)	1.1	watts
Grid-No.2 Input	0.75	watt

CHARACTERISTICS (With Both Units Operating)

Plate Voltage (Each Unit)	100	volts
Grid-No.3 Voltage (Each Unit)	—10	volts
Grid-No.2 Voltage	67.5	volts
Grid-No.1 Voltage	*	volts
Plate Current (Each Unit)	—	mA
Grid-No.2 Current	6.5	mA
Cathode Current	6.6	mA

CHARACTERISTICS (With One Unit Operating)

Plate Voltage	100	volts
Grid-No.3 Voltage	0	volts
Grid-No.2 Voltage	67.5	volts
Grid-No.1 Voltage	0	volts