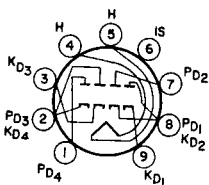


Refer to chart at end of section.

6JU8

6JU8A

8JU8A



9PQ

QUADRUPLE DIODE

Miniature type used in phase-detector and noise-immune color-killer circuits of color television receivers, and in bridge-matrixing circuits in FM stereo multiplex equipment. **Outlines section, 6B**; requires miniature 9-contact socket. Units 1 and 2 are shielded from units 3 and 4 to minimize coupling between the series-

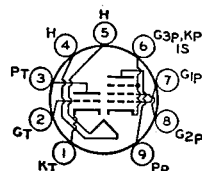
connected pairs of diodes. Type 8JU8A is identical with type 6JU6A except for heater ratings.

Heater Voltage (ac/dc)	6JU8A 6.3	8JU8A 8.4	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time	—	11	seconds
Peak Heater-Cathode Voltage	±300 max	±300 max	volts
Direct Interelectrode Capacitances (Approx.):			
Plate of Unit No.1 and Cathode of Unit No.2 to Cathode of Unit No.1		1.8	pF
Plate of Unit No.1 and Cathode of Unit No.2 to Plate of Unit No.2		2.2	pF
Plate of Unit No.2 to Heater and Internal Shield		0.62	pF
Plate of Unit No.3 and Cathode of Unit No.4 to Cathode of Unit No.3		1.9	pF
Plate of Unit No.3 and Cathode of Unit No.4 to Plate of Unit No.4		2.2	pF
Plate of Unit No.4 to Heater and Internal Shield		0.94	pF
Cathode of Unit No.1 to Heater and Internal Shield		1.8	pF
Cathode of Unit No.3 to Heater and Internal Shield		1.9	pF
MAXIMUM RATINGS (Design-Center Values, Each Diode Unit)			
Peak Inverse Plate Voltage		300	volts
Peak Plate Current		54	mA
Average Output Current		9	mA
CHARACTERISTIC, Instantaneous Value (Each Unit)			
Plate Current for plate voltage of 10 volts		60	mA

HIGH-MU TRIODE— SHARP-CUTOFF PENTODE

6JV8

8JV8



9DX

Miniature type used in television receiver applications, particularly those having low-voltage "B" supplies. The triode unit is used in sound-if, keyed-agc, sync-separator, sync-amplifier, and noise-suppression circuits. The pentode unit is especially useful as a video amplifier tube. **Outlines section, 6E**; requires miniature 9-contact socket. Type 8JV8 is identical with type 6JV8 except for heater ratings.

Heater Voltage (ac/dc)	6JV8 6.3	8JV8 8.5	volts
Heater Current	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 (Approx.):			
Triode Unit:			
Grid to Plate		2.2	pF
Grid to Cathode and Heater		3	pF
Plate to Cathode and Heater		2	pF
Pentode Unit:			
Grid No.1 to Plate		0.08 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		8	pF

Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	3.2	pF
Pentode Grid No.1 to Triode Plate	0.012 max	pF
Pentode Plate to Triode Plate	0.24 max	pF

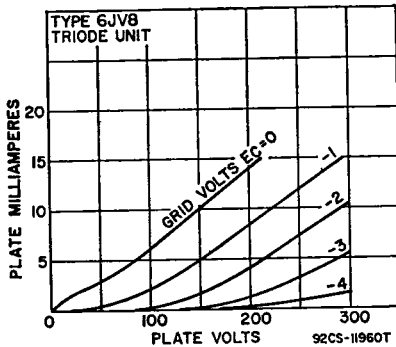
Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)		Triode Unit	Pentode Unit		
Plate Voltage		330	330	volts	
Grid-No.2 (Screen-Grid) Voltage		—	330	volts	
Grid-No.1 (Control-Grid) Voltage:					
Positive-bias value		0	0	volts	
Negative-bias value		50	50	volts	
Plate Dissipation		1.1	4	watts	
Grid-No.2 Input		—	1.7	watts	
CHARACTERISTIC		Triode Unit	Pentode Unit		
Plate Voltage	200	60	125	200	volts
Grid-No.2 Voltage	—	200	125	200	volts
Grid-No.1 Voltage	-2	0	-1	-2.9	volts
Amplification Factor	70	—	—	—	
Plate Resistance (Approx.)	0.0175	—	0.1	0.15	megohm
Transconductance (Approx.)	4000	—	11500	10700	μmhos
Plate Current	4	51*	22	22	mA
Grid-No.2 Current	—	14*	4	4	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	-5	—	-5.5	-9	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Current Resistance:				
For fixed-bias operation		0.5	0.25	megohm
For cathode-bias operation		1	1	megohm

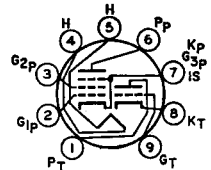
* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.



**6JW8/
ECF802**

5JW8
6LX8/LCF802
9JW8/PCF802

**MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**



9AE

Miniature type used as horizontal-oscillator and frequency-control tube in color and black-and-white television receivers. Outlines section, 6B; requires miniature 9-contact socket. Types 5JW8, 6LX8/LCF802 and 9JW8/PCF802 are identical with type 6JW8/ECF802 except for heater ratings.

	5JW8	6JW8/ ECF802	6LX8/ LCF802	9JW8/ PCF802	
Heater Voltage (ac/dc) ..	4.7	6.3	6	9	volts
Heater Current	0.6	0.43	0.45	0.3	ampere
Heater Warm-up Time (Average)	11	—	—	—	seconds
Heater-Cathode Voltage:					
Peak value	±200 max	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	100 max	volts