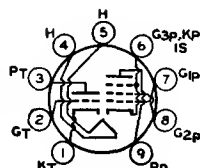


6JV8

8JV8

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

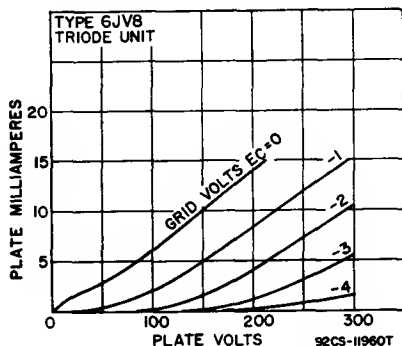
Miniature type used in television receiver applications, particularly those having low-voltage "B" supplies. The triode unit is used in sound-if, keyed-agc, sync-separator, sync-amplifier, and noise-suppression circuits. The pentode unit is especially useful as a video amplifier tube. Outlines section,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

**9DX**

	6JV8	8JV8	
Heater Voltage (ac/dc)	6.3	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	
CHARACTERISTICS		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	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

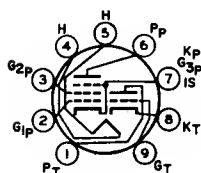


MAXIMUM CIRCUIT VALUES

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.

**9AE****MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

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. Type 6LX8/LCF802 is identical with type 6JW8/ECF802 except for heater ratings.

**6JW8/
ECF802**

6LX8/LCF802

Heater Voltage (ac/dc)	6.3	6	volts
Heater Current	0.43	0.45	ampere
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

	Triode Unit	Pentode Unit	
Plate Supply Voltage	550	550	volts
Plate Voltage	250	250	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	550	volts
Grid-No.2 Voltage	—	250	volts
Peak Cathode Current*	—	50	mA
Cathode Current	10	15	mA
Plate Dissipation	1.4	1.2	watts
Grid-No.2 Input	—	0.8	watts
Input Impedance at 60 Hz	50	300	kohms

CHARACTERISTICS

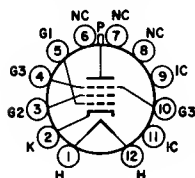
Plate Voltage	200	100	volts
Grid-No.2 Voltage	—	100	volts
Grid-No.1 (Control-Grid) Voltage	—2	—1	volts
Mu Factor, Grid-No.1 to Grid-No.2	—	47	
Amplification Factor	70	—	
Input Resistance	0.2	0.4	megohm
Transconductance	3500	5500	μmhos
Plate Current	3.5	6	mA
Grid-No.2 Current	—	1.7	mA
Plate Current:			
For grid-No.1 voltage of 0 volts	—	12.5	mA
For grid current of 10 μA	10	—	mA
Grid-No.2 Current for grid-No.1 voltage of 0 volts	—	3.5	mA
Grid-No.1 Voltage:			
For grid-No.1 current of ±0.3 μA	—1.3	—1.3	volts
For plate and grid-No.2 voltage of 200 volts and plate current of 10 μA	—	—16	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	—	0.56	megohm
For cathode-bias operation	3	1	megohms

* With a maximum duty factor of 0.30 and maximum pulse duration of 30 microseconds.

**12GD****BEAM POWER TUBE****6JZ6**

Duodecar type used as horizontal-deflection amplifier in black-and-white television receivers. Outlines section, 16A; requires duodecar 12-contact socket. Heater: volts (ac/dc), 6.3; amperes, 1.5; maximum heater-cathode volts, ±200 peak, 100 average.