

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

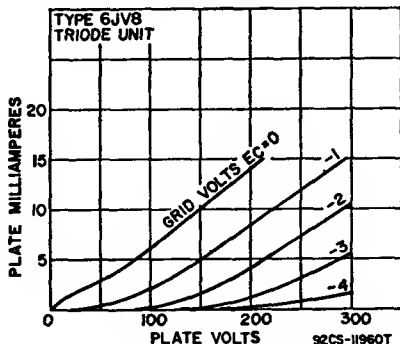
CHARACTERISTIC

	Triode Unit	Pentode Unit	
Plate Voltage	200	60	125
Grid-No.2 Voltage	—	200	125
Grid-No.1 Voltage	—2	0	—1
Amplification Factor	70	—	—
Plate Resistance (Approx.)	0.0175	—	0.1
Transconductance	4000	—	11500
Plate Current	4	51*	22
Grid-No.2 Current	—	14*	4
Grid-No.1 Voltage (Approx.) for plate current of 20 μ A	—5	—	—5.5
			—9

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.

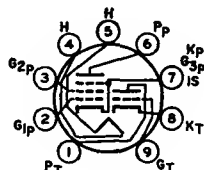


6JW8/ ECF802

5JW8
6LX8/LCF802
9JW8/PCF802

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

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.



9AE

	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

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

	Triode Unit	Pentode Unit	
Plate Supply Voltage	660	660	volts
Plate Voltage	250	250	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	650	volts
Grid-No.2 Voltage	—	250	volts
Peak Cathode Current*	—	60	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	3.6	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	—	3.6	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

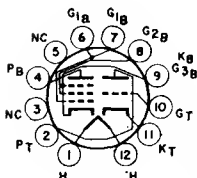
MAXIMUM CIRCUIT VALUES

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.

Refer to chart at end of section.

6JZ6



12DZ

heater ratings.

MEDIUM-MU TRIODE—
POWER PENTODE

6JZ8

13JZ8, 17JZ8, 24JZ8,
25JZ8

Duodecator type used in combined vertical-deflection-oscillator and vertical-deflection-amplifier applications in television receivers. Outlines section, 8C; requires duodecator 12-contact socket. Types 13JZ8, 17JZ8, 24JZ8, and 25JZ8 are identical with type 6JZ8 except for

	6JZ8	13JZ8	17JZ8	24JZ8	25JZ8	
Heater Voltage (ac/dc)	6.3	12.7	16.8	24.2	25.2	volts
Heater Current	1.2	0.6	0.45	0.315	0.3	amperes
Heater Warm-up Time	—	11	11	11	—	seconds
Heater-Cathode Voltage:						
Peak value	±200 max	±200 max	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	100 max	100 max	volts

Class A₁ Amplifier

CHARACTERISTICS

	Triode Unit	Beam Power Unit	
Plate Voltage	150	45	120
Grid-No.2 (Screen-Grid) Voltage	—	110	110
Grid-No.1 (Control-Grid) Voltage	—6	0	—8
Amplification Factor	20	—	—
Plate Resistance (Approx.)	8600	—	11700
Transconductance	2360	—	7100
Plate Current	6.5	122*	46
Grid-No.2 Current	—	16.5*	3.5
Grid-No.1 Voltage (Approx.) for plate current of 10 μA	—10	—	—