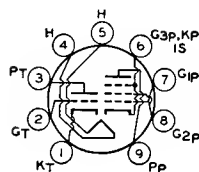


MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

6CX8

8CX8



9DX

Miniature type used in television receiver applications. Pentode unit is used as video amplifier; triode unit is used in sound if-amplifier, sweep-oscillator, sync-separator, sync-amplifier, and sync-clipper circuits. Outlines section, 6E; requires miniature 9-contact socket. Type 8CX8 is identical with type 6CX8 except for heater ratings.

Heater Voltage (ac/dc)	6CX8 6.3	8CX8 8	volts
Heater Current	0.75	0.6	ampere
Heater Warm-up Time (Average)	—	11	volts
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Triode Unit:			
Grid to Plate		4.4	pF
Grid to Cathode and Heater		2.2	pF
Plate to Cathode and Heater		0.38	pF
Pentode Unit:			
Grid No.1 to Plate		0.06	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		9	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		4.4	pF
Triode Grid to Pentode Plate		0.018 max	pF
Pentode Grid No.1 to Triode Plate		0.005 max	pF
Pentode Plate to Triode Plate		0.17 max	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

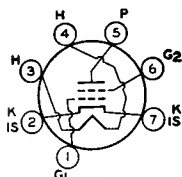
	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 (Screen-Grid) Voltage	—	330	volts
Grid-No.2 Voltage	—	See curve page 98	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2	5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	1.1	watts
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 98	

CHARACTERISTICS

Plate Supply Voltage	150	200	volts
Grid-No.2 Supply Voltage	—	125	volts
Cathode-Bias Resistor	150	68	ohms
Amplification Factor	40	—	
Plate Resistance (Approx.)	8700	70000	ohms
Transconductance	4600	10000	μmhos
Plate Current	9.2	24	mA
Grid-No.2 Current	—	52	mA
Grid-No.1 (Voltage Approx.) for plate current of 100 μA	—5	—8.5	volts

MAXIMUM CIRCUIT VALUES

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



7EW

SHARP-CUTOFF TETRODE

6CY5

2CY5, 3CY5

Miniature type used as rf amplifier in vhf tuners of television receivers. Outlines section, 5C; requires miniature 7-contact socket. Types 2CY5 and 3CY5 are identical with type 6CY5 except for heater ratings.

	2CY5	3CY5	6CY5	
Heater Voltage (ac/dc)	2.4	2.9	6.3	volts
Heater Current	0.6	0.45	0.2	ampere
Heater Warm-up Time (Average)	11	11	—	seconds
Peak Heater-Cathode Voltage	±100 max	±100 max	±100 max	volts