

MEDIUM-MU TRIODE— SHARP-CUTOFF TETRODE

6CL8A

5CL8A

Miniature type used as combined vhf oscillator and mixer in color and black-and-white television receivers. Outlines section, 6B; requires miniature 9-contact socket. For maximum ratings as class A₁ amplifier, see type 6U8A. Type 5CL8A is identical with type 6CL8A except for heater ratings.

Heater Voltage (ac/dc)	4.7
Heater Current	0.6
Heater Warm-up Time (Average)	11
Heater-Cathode Voltage:	
Peak value	±200 max
Average value	100 max

5CL8A	6CL8A	
4.7	6.3	volts
0.6	0.45	ampere
11	11	seconds
±200 max	±200 max	volts
100 max	100 max	volts

Direct Interelectrode Capacitances:

Triode Unit:	
Grid to Plate	1.8
Grid to Cathode, Tetrode Cathode, Heater, and Internal Shield	2.8
Plate to Cathode, Tetrode Cathode, Heater, and Internal Shield	1.5
Tetrode Unit:	
Grid No. 1 to Plate	0.02 max
Grid No.1 to Cathode, Heater, Grid No.2, and Internal Shield	5
Plate to Cathode, Heater, Grid No.2, and Internal Shield	2
Tetrode Grid No.1 to Triode Plate	0.015 max
Tetrode Plate to Triode Plate	0.15 max
Heater to Cathode (Each Unit)	3

Unshielded	Shielded	
1.8	1.8	pF
2.8	2.8	pF
1.5	2	pF
0.02 max	0.01 max	pF
5	5	pF
2	3	pF
0.015 max	0.01 max	pF
0.15 max	0.03 max	pF
3	3	pF

Class A₁ Amplifier

CHARACTERISTICS

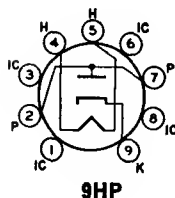
Plate Supply Voltage	125
Grid-No.2 (Screen-Grid) Voltage	—
Grid-No.1 Voltage	—1
Amplification Factor	40
Plate Resistance (Approx.)	0.005
Transconductance	8000
Plate Current	14
Grid-No.2 Current	—
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	—9

Triode Unit	Tetrode Unit	
125	125	volts
—	125	volts
—1	—1	volt
40	—	
0.005	0.2	megohm
8000	6500	μmhos
14	12	mA
—	.4	mA
—9	—9	volts

MAXIMUM CIRCUIT VALUES

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

0.25	megohm
1	megohm



HALF-WAVE VACUUM RECTIFIER

6CM3

Novar type used as damper tube in horizontal-deflection circuits of color and black-and-white television receivers. Outline section, 30B; requires novar 9-contact socket. Socket terminals 1, 3, 6, and 8 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated.

Heater Voltage (ac/dc)	6.3
Heater Current	2.4
Direct Interelectrode Capacitances:	
Plate to Cathode and Heater	20
Cathode to Plate and Heater	18
Heater to Cat' de	4

volts
ampere
pF
pF
pF