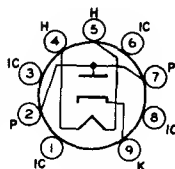


6CL3

12CL3

**HALF-WAVE
VACUUM RECTIFIER**

Novar type used as a damper tube in horizontal-deflection circuits of color and black-and-white television receivers. Outlines 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. Type 12CL3 is identical with type 6CL3 except for heater ratings.

**9HP**

	6CL3	12CL3	
Heater Voltage (ac/dc)	6.3	12.6	volts
Heater Current	1.2	0.6	amperes
Heater Warm-up Time (Average)	—	11	seconds
Direct Interelectrode Capacitances:			
Plate to Cathode and Heater		6.5	pF
Cathode to Plate and Heater		9	pF
Heater to Cathode		3	pF

Damper Service

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	5500	volts
Peak Plate Current	1300	mA
Average Plate Current	250	mA
Plate Dissipation	8.5	watts
Bulb Temperature (At hottest point)	220	°C
Heater-Cathode Voltage:		
Peak value	+300	volts
Average value	+100	volts

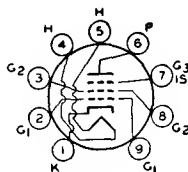
CHARACTERISTICS, INSTANTANEOUS VALUE

Tube Voltage Drop for plate current of 350 mA	16	volts
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Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

6CL6**POWER PENTODE**

Miniature type used in output stage of video amplifier of color and black-and-white television receivers and as wide-band amplifier tube in industrial and laboratory equipment. Outlines section, 6E; requires miniature 9-contact socket.

**9BV**

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.65	amperes
Peak Heater-Cathode Voltage	±100 max	volts
Direct Interelectrode Capacitances (Approx.):		
Grid No.1 to Plate	0.12	pF
Grid-No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	11	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	5.5	pF

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

Plate Voltage	300	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Supply Voltage	300	volts
Grid-No.2 Voltage	150	volts
Grid-No.1 (Control-Grid) Voltage:		
Negative-bias value	50	volts
Positive-bias value	0	volts
Plate Dissipation	7.5	watts
Grid-No.2 Input	1.7	watts
Bulb Temperature (At hottest point)	200	°C