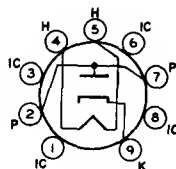


6CL3

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

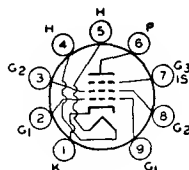
CHARACTERISTICS, INSTANTANEOUS VALUE

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