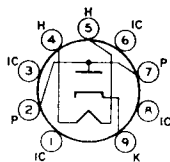


6DN3**HALF-WAVE
VACUUM RECTIFIER**

Novar type used as a damper diode in horizontal-deflection circuits of color television receivers. Outlines section, 8G; requires novar 9-contact socket. Terminals 1, 3, 6, and 8 should not be used as tie points for external-circuit components.

**9HP**

Heater Voltage (ac/dc)	6.3	volts
Heater Current	2.4	amperes
Direct Interelectrode Capacitances:		
Plate to Cathode and Heater	13	pF
Cathode to Plate and Heater	16	pF
Heater to Cathode	4	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	2100	mA
Average Plate Current	350	mA
Plate Dissipation	9	watts
Bulb Temperature (At hottest point)	220	°C
Heater-Cathode Voltage:		
Peak value	+300 —5500	volts
Average value	+100 —900	volts

CHARACTERISTIC, Instantaneous Value

Tube Voltage Drop for plate current of 350 mA	14	volts
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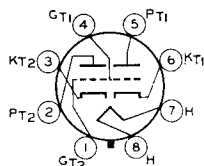
Pulse duration Drop must not exceed 15% of a horizontal scanning cycle (10 microseconds).

6DN6

Refer to chart at end of section.

6DN7**MEDIUM-MU DUAL TRIODE**

Glass octal type used as combined vertical-deflection-oscillator and vertical-deflection-amplifier tube in television receivers. Outlines section, 13B; requires octal socket. Heater: volts (ac/dc), 6.3; amperes, 0.9; maximum heater-cathode volts, ± 200 peak, 100 average.

**8BD****Class A₁ Amplifier****CHARACTERISTICS**

	Unit No.1	Unit No.2	
Plate Voltage	250	250	volts
Grid Voltage	—8	—9.5	volts
Amplification Factor	22.5	15.4	
Plate Resistance (Approx.)	9000	2000	ohms
Transconductance	2500	7700	μmhos
Plate Current	8	41	mA
Grid Voltage (Approx.) for plate current of 10 μA	—18	—	volts
Grid Voltage (Approx.) for plate current of 50 μA	—	—23	volts

Vertical-Deflection Oscillator and Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

	Unit No.1 Oscillator	Unit No.2 Amplifier	
DC Plate Voltage	350	550	volts
Peak Positive-Pulse Plate Voltage#	—	2500	volts
Peak Negative-Pulse Grid Voltage	400	250	mA
Peak Cathode Current	—	150	mA
Average Cathode Current	—	50	mA
Plate Dissipation	1	10	watts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:			
For fixed-bias operation	2.2	2.2	megohms
For cathode-bias operation	2.2	—	megohms

Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).