

Heater Arrangement	6MD8 Parallel	12MD8 Series	
Heater Voltage (ac/dc)	6.3	12.6	volts
Heater Current	0.9	0.45	ampere
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
	Unit No.1	Unit No.2	Unit No.3
Direct Interelectrode Capacitances (Approx.):			
Grid to Plate	3	3	3
Grid to Cathode and Heater	3.6	3.6	3.4
Plate to Cathode and Heater	0.48	0.48	0.36
			pF

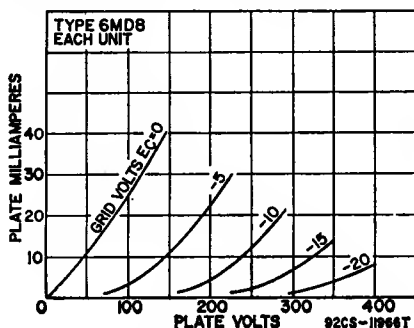
Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	3	watts

CHARACTERISTICS

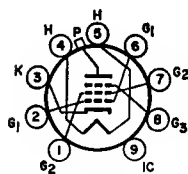
Plate Voltage	250	volts
Grid Voltage	-10.5	volts
Amplification Factor	17	
Plate Resistance (Approx.)	5500	ohms



Transconductance	3100	μ mhos
Plate Current	11.5	mA
Plate Current for grid voltage of -14 volts	4	mA
Grid Voltage (Approx.) for plate current of 50 μ A	-23	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance, for fixed-bias operation	1	megohm
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9QL

BEAM POWER TUBE

6ME6

Novar types used as horizontal-deflection amplifier in color and black-and-white television receivers. Outlines section, 32C; require novar 9-contact socket.

Heater Voltage (ac/dc)	6.3 ± 0.6	volts
Heater Current	2.3	amperes
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.6	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	22	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	11	pF

Class A₁ Amplifier

CHARACTERISTICS	Triode* Connection	5000	Pentode Connection	—	volts
Peak Positive-Pulse Plate Voltage#	—	—	—	—	volts
Plate Voltage	125	—	55	175	volts
Grid-No.3 (Suppressor-Grid) Voltage	—	0	30	30	volts
Grid-No.2 (Screen-Grid) Voltage	125	125	125	125	volts
Grid-No.1 (Control-Grid) Voltage	-25	—	0	-25	volts
Plate Resistance (Approx.)	—	—	—	5800	ohms
Transconductance	—	—	—	9600	μmhos
Plate Current	—	—	580 $\frac{1}{2}$	130	mA
Grid-No.2 Current	—	—	40 $\frac{1}{2}$	2.8	mA
Grid-No.1 Voltage for plate current of 1 mA	—	-125	—	-44	volts
Amplification Factor	3.5	—	—	—	—

* Grid No.3 and grid No.2 connected, respectively, to cathode and plate at socket.

† This value may be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Plate Supply Voltage	990	volts
Peak Positive-Pulse Plate Voltage#	7500	volts
Peak Negative-Pulse Plate Voltage	1100	volts
Grid-No.3 Voltage*	75	volts
Grid-No.2 Voltage	220	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Peak Cathode Current	1200	mA
Average Cathode Current	350	mA
Plate Dissipation*	30	watts
Plate Dissipation (Temporary overload)†	200	watts
Grid-No.2 Input	5	watts
Envelope Temperature (At hottest point)	250	°C

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance for Cathode Bias (with min. R _k = 100Ω)	1.0	megohm
Grid-leak Bias (with signal peak clamped to zero bias)	10.0	megohms
Fixed Bias (where positive grid current is not drawn)	0.47	megohm

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

* For horizontal-deflection service, a positive voltage may be applied to grid-No.3 to minimize "snivets" interference in both vhf and uhf television receivers. A typical value is 30 volts.

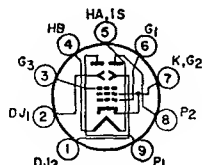
† A bias resistor or other means is required to protect the tube in absence of excitation.

‡ Total continuous or accumulated time not to exceed 40 seconds.

6ME8

TWO-PLATE
BEAM-DEFLECTION TUBE

Miniature type used for color-demodulator applications in color television receivers and a variety of other switching and gate applications. Outlines section, 6E; requires miniature 9-contact socket. Pin 5 should be connected directly to ground. The 6ME8 should be so located in the equipment that it is not subjected to stray magnetic fields.



9RU

Heater Voltage (ac/dc)	5.3	volts
Heater Current	0.3	ampere
Direct Interelectrode Capacitances:		
Grid No.1 to All Other Electrodes Except Plates	7.5	pF
Either Plate to All Other Electrodes	5	pF
Either Deflecting Electrode to All Other Electrodes	6	pF
Plate No.1 to Plate No.2	0.4	pF
Deflecting Electrode No.1 to Deflecting Electrode No.2	0.4	pF
Grid No.1 to Deflecting Electrode No.1	0.07 max	pF
Grid No.1 to Deflecting Electrode No.2	0.1 max	pF