

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	pF
Grid to Cathode and Heater	3.6	3.6	3.4	pF
Plate to Cathode and Heater	0.48	0.48	0.36	pF

 Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

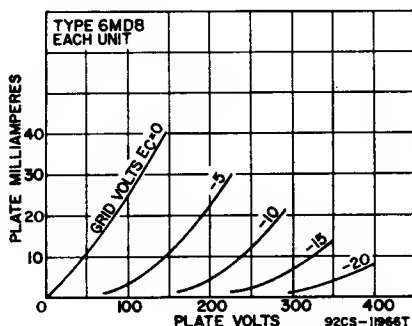
Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	3	watts

CHARACTERISTICS

Plate Voltage	250	volts
Grid Voltage	-10.5	volts
Amplification Factor	17	
Plate Resistance (Approx.)	5500	ohms
Transconductance	3100	μmhos
Plate Current	11.5	mA
Plate Current for grid voltage of -14 volts	4	mA
Grid Voltage (Approx.) for plate current of 50 μA	-23	volts

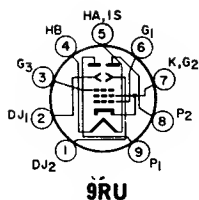
MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance, for fixed-bias operation	1	megohm
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 TWO-PLATE
BEAM-DEFLECTION TUBE

6ME8

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.



Heater Voltage (ac/dc)	6.3	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	6	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

Color TV Demodulator

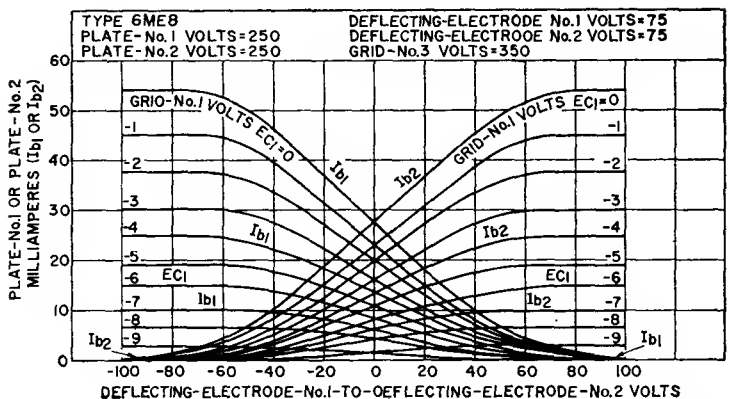
MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage (Each Plate)	400	volts
Peak Deflecting-Electrode Voltage (Each Electrode)	±200	volts
Deflecting-Electrode Voltage (Each Electrode)	100	volts
Grid-No.3 (Accelerating-Grid) Voltage	400	volts
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Cathode Current	30	mA
Plate Dissipation (Each Plate)	2	watts
Grid-No.3 Input	2	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.25	megohm



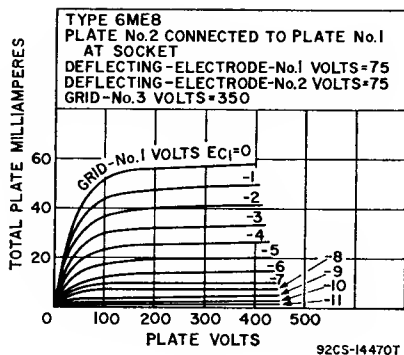
92CM-1447IT

Class A₁ Amplifier

CHARACTERISTICS

Plate-No.2 Supply Voltage	250	volts
Plate-No.2	Connected to Plate No.1	
Plate-No.1 Supply Voltage	250	volts
Grid-No.3 Supply Voltage	350	volts
Grid-No.1 Supply Voltage	0	volts
Deflecting-Electrode-No.2 Supply Voltage	75	volts
Deflecting-Electrode-No.1 Supply Voltage	75	volts
Cathode-Bias Resistor	390	ohms
Transconductance, Grid No.1 to both plates	4400	μmhos
Total Plate Current	14.5	mA
Grid-No.3 Current	0.7	mA
Grid-No.1 Voltage for total plate current of 10 μA	-16	volts
Deflecting-Electrode Switching Voltage*	30 max	volts
Voltage Difference between Deflecting Electrodes for equal plate currents	0	volts
Plate-No.1 Current with Deflecting-Electrode-No.1 Voltage = 55V and Deflecting-Electrode-No.2 Voltage = 95V	1.3 max	mA
Plate-No.2 Current with Deflecting-Electrode-No.1 Voltage = 95V and Deflecting-Electrode-No.2 Voltage = 55V	1.3 max	mA
Deflecting-Electrode-No.1 Current with Deflecting-Electrode-No.1 Voltage = 125V and Deflecting-Electrode-No.2 Voltage = 25V	0.04 max	mA
Deflecting-Electrode-No.2 Current with Deflecting-Electrode-No.1 Voltage = 25V and Deflecting-Electrode-No.2 Voltage = 125V	0.04 max	mA

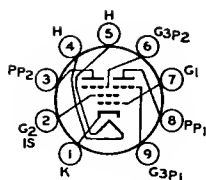
* Defined as the total voltage change from 75 volts on either deflecting electrode with an equal and opposite change on the other deflecting electrode required to switch the plate current from one plate to the other.



SHARP-CUTOFF TWIN PENTODE

6MK8

Miniature type used in sync-separator, clipper, agc, and low-level color-demodulator circuits in television receivers. Outlines section, 6E; requires miniature 9-contact socket.


9FG

Heater Voltage	6.3	volts
Heater Current	0.3	ampere
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Grid No.3 to Plate (Each Section)	2	pF
Grid No.1 to All Electrodes	6	pF
Grid No.3 (Each Section) to All Electrodes	3.6	pF
Plate (Each Section) to All Electrodes	3	pF
Grid No.3 (Section 1) to Grid No.3 (Section 2)	0.015 max	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage (Each Unit)	300	volts
Grid-No.3 (Suppressor-Grid) Voltage (Each Unit)		
Peak positive value	50	volts
DC negative value	50	volts
DC positive value	3	volts
Grid-No.2 (Screen-Grid) Voltage	150	volts
Grid-No.1 (Control-Grid) Voltage, Negative-bias value	50	volts
Cathode Current	12	mA
Plate Dissipation (Each Section)	1.1	watts
Grid-No.2 Input	0.75	watt

MAXIMUM PLATE CURRENT RATIO (Balance)—1.3 to 1

Plate Voltage	100	volts
Grid-No.2 Voltage	67.5	volts
Grid-No.1 Voltage	67.5	volts
Grid-No.3 Voltage	0	volts
Grid-No.1 Resistance	0.68	megohm

CHARACTERISTICS

With One Unit Operating*

Plate Voltage	100	100	volts
Grid-No.3 Voltage	0	0	volts
Grid-No.2 Voltage	67.5	67.5	volts
Grid-No.1 Voltage	0	*	volts
Transconductance, Grid No.3 to Plate	—	450	μmhos
Transconductance, Grid No.1 to Plate	1100	—	μmhos