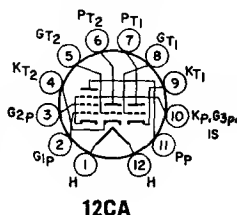


6M11**HIGH-MU TWIN TRIODE—
SHARP-CUTOFF PENTODE**

Duodecar type used in television receiver applications. The triode units are used in sync-separator and agc-amplifier circuits; the pentode unit is used in if-amplifier circuits. Outlines section, 8B; requires duodecar 12-contact socket.



Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.77	ampere
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:**		
Triode Units:		
Grid to Plate	1.8	pF
Grid to Triode Cathode, Pentode Cathode, Heater, Pentode		
Grid No.3, and Internal Shield	3.4	pF
Plate to Triode Cathode, Pentode Cathode, Heater, Pentode		
Grid No.3, and Internal Shield	0.8	pF
Pentode:		
Grid No.1 to Plate	0.03	pF
Grid No.1 to Cathode, Grid No.2, Grid No.3, and Internal Shield	12	pF
Plate to Cathode, Grid No.2, Grid No.3, and Internal Shield	2.8	pF

** With external shield connected to pentode cathode, grid No.3, and internal shield.

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

	Each Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	330	volts
Grid-No.2 Voltage	—	See curve	page 98
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2.25	3.1	watts
Grid-No.2 Input:			
For voltages up to 165 volts	—	0.65	watt
For voltages between 165 and 330 volts	—	See curve	page 98

CHARACTERISTICS

Plate Supply Voltage	125	125	volts
Grid-No.2 Supply Voltage	—	125	volts
Cathode-Bias Resistor	125	56	ohms
Amplification Factor	58	—	
Plate Resistance (Approx.)	7250	200000	ohms
Transconductance	8000	13000	μmhos
Plate Current	8	11	mA
Grid-No.2 Current	—	3.4	mA
Grid-No.1 Voltage (Approx.) for plate current			
of 20 μA	—	—3.5	volts
Grid-No.1 Voltage (Approx.) for plate current			
of 50 μA	—4.5	—	volts

MAXIMUM CIRCUIT VALUES

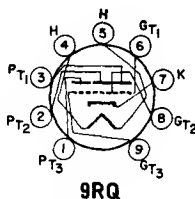
Grid-No.1-Circuit Resistance, for cathode-bias operation	0.68	1	megohm
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6MD8

12MD8

**MEDIUM-MU
TRIPLE TRIODE**

Novar type used in matrixing circuits of color and black-and-white television receivers. Outlines section, 11E; requires novar 9-contact socket. Type 12MD8 is identical with type 6MD8 except for heater ratings.



	6MD8 Parallel	12MD8 Series	
Heater Arrangement			
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	Unit	Unit
No.1	No.2	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)

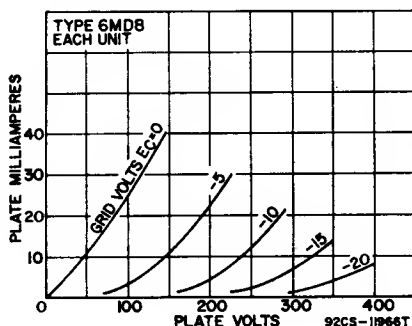
Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	3	watts

CHARACTERISTICS

Plate Voltage	250	volts
Grid Voltage	-10.5	volts
Amplification Factor	17	
Plate Resistance (Approx.)	5500	ohms
Transconductance	3100	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

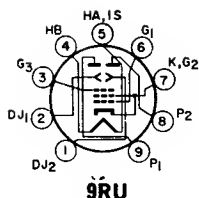
MAXIMUM CIRCUIT VALUE

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