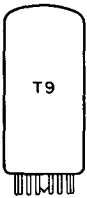
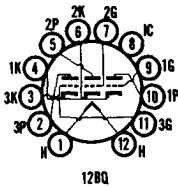


OSCILLATOR, MIXER
AMPLIFIER or AFC

6D10

High Mu Triple Triode

Construction.....Compactron T-9
Base Button 12 Pin, E12-70
Basing 12BQ
Outline 9-56
Maximum Diameter 1.188 In.
Maximum Seated Height 1.500 In.
Maximum Overall Height 1.875 In.



ELECTRICAL DATA

HEATER OPERATION	
Heater Voltage.....	6.3 Volts
Heater Current.....	450 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak.....	200 Volts
Heater Positive with Respect to Cathode	
DC.....	100 Volts
Total DC and Peak.....	200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded) (Each Section)

Grid to Plate.....	1.5 Pf
Input.....	2.2 Pf
Output.....	0.5 Pf

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage (Max.).....	330 Volts
Plate Dissipation (Each Plate) (Max.).....	2.0 Watts
Plate Dissipation (Plates 1, 2, and 3) (Max.).....	6.0 Watts
Positive Grid Voltage (Max.).....	0 Volt
Negative Grid Voltage (Max.).....	50 Volts

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier—Each Section	
Plate Voltage.....	125 Volts
Grid Voltage.....	-1.0 Volt
Plate Current.....	4.2 Ma
Plate Resistance.....	13,600 Ohms
Transconductance.....	4200 μ mhos
Amplification Factor.....	57
Ec for Ib = 20 μ a.....	-4 Volts

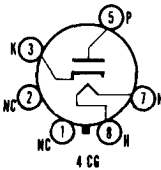
DAMPER

6DA4A/6DM4A

12D4A, 17D4A

Heater-Cathode Diode

Construction Octal T-9
Base Octal 5 Pin, B5-85
Basing⁽¹⁾ 4CG
Outline 9-41
Maximum Diameter 1.188 In.
Maximum Seated Height 2.750 In.
Maximum Overall Height 3.313 In.



ELECTRICAL DATA

HEATER OPERATION		17D4A	12D4A	6DA4A/6DM4A
Heater Voltage.....		16.8	12.6	6.3 Volts
Heater Current.....		450	600	1200 Ma
Heater Warm-up Time.....		11	11	— Seconds
Maximum Heater-Cathode Voltage				
Heater Negative with Respect to Cathode				
DC.....				1000 Volts
Total DC and Peak.....				5000 Volts

Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak	300 Volts

DIRECT INTERELECTRODE CAPACITANCES

Heater to Cathode	3.0 Pf
Plate to Cathode and Heater	9.0 Pf
Cathode to Plate and Heater	7.0 Pf

RATINGS (Design Maximum Rating System)

Damper Service⁽²⁾

Peak Inverse Plate Voltage (Max.)	5000 Volts
Plate Dissipation (Max.)	8.0 Watts
Steady State Peak Current (Max.)	900 Ma
DC Plate Current (Max.)	185 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 340 Ma	30 Volts
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NOTES:

- (1) Pins 1, 2, 4, and 6 should not be used as tie points.
- (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

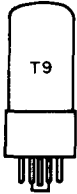
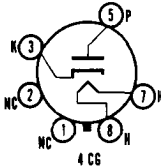
6DE4

17DE4, 22DE4

DAMPER

Heater-Cathode Diode

Construction	Octal T-9
Base ⁽¹⁾	Octal 5 Pin, B5-85
Basing ⁽²⁾	4CG
Outline	9-44
Maximum Diameter	1.188 In.
Maximum Seated Height	3.250 In.
Maximum Overall Height	3.813 In.



ELECTRICAL DATA

HEATER OPERATION

	22DE4	17DE4	6DE4
Heater Voltage	22.4	17	6.3 Volts
Heater Current	450	600	1600 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
DC			900 Volts
Total DC and Peak			5500 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak			300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	4 Pf
Plate to Cathode and Heater	8.5 Pf
Cathode to Plate and Heater	11.5 Pf

RATINGS (Design Maximum Rating System)

Damper Service

Peak Inverse Plate Voltage (Max.) ⁽³⁾	5500 Volts
Plate Dissipation (Max.)	6.5 Watts
Steady State Peak Current (Max.)	1100 Ma
DC Plate Current (Max.)	180 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 350 Ma	34 Volts
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NOTES:

- (1) On some base arrangements Pins 1, 4, and 6 are omitted.
- (2) Pins 1, 2, 4, and 6 should not be used as tie points.
- (3) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.