Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode

DC	900 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 (Unshielded)

Heater to Cathode	2.8 Pf
Plate to Cathode and Heater	6.5 Pf
Cathode to Plate and Heater	9.0 Pf

RATINGS (Design Maximum Rating System)

Damper Service(2)

Peak Inverse Plate Voltage (Max.)	5000 Volts
Plate Dissipation (Max.)	6.3 Watts
Steady State Peak Current (Max.)	1100 Ma
DC Plate Current (Max.)	175 Ma

NOTES:

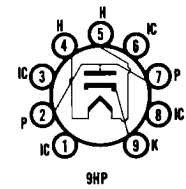
(1) Pins 1, 3, 6, and 8 should not be used as tie points.
(2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

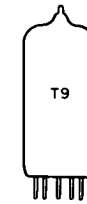
6AY3A

DAMPER

Heater-Cathode Diode

Construction .....Novar T-9
Base .....Novar Button 9 Pin, E9-75
Basing 9HP
Outline 9-85
Maximum Diameter .....1.188 In.
Maximum Seated Height .....2.730 In.
Maximum Overall Height .....3.110 In.
6AY3A is identical to 6AY3 except for shorter bulb.





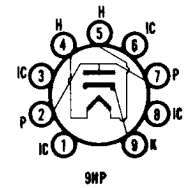
6AY3B

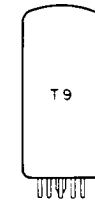
12AY3A, 17AY3A

DAMPER

Heater-Cathode Diode

Construction .....Novar T-9
Base .....Novar Button 9 Pin, E9-89
(Exhaust Tip on Base)
Basing 9HP
Outline
Maximum Diameter .....1.188 In.
Maximum Seated Height .....2.625 In.
Maximum Overall Height .....3.005 In.
6AY3B, 12AY3A, 17AY3A are identical to 6AY3, 6AY3A, 12AY3, 17AY3 except for base with exhaust tip at bottom and shorter bulb.





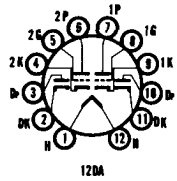
Color Television Type

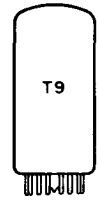
FM DETECTOR AF AMPLIFIER

6AY11

Double Diode and Double High Mu Triode

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





ELECTRICAL DATA

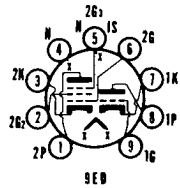
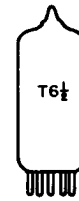
HEATER OPERATION

Heater Voltage	6.3 Volts
Heater Current	690 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)	
Triode (Each Section)	
Grid to Plate	2.2 Pf
Input	2.0 Pf
Output	0.22 Pf
Diode (Each Section)	
Plate to Cathode and Heater	2.0 Pf
Cathode to Heater and Plate	5.5 Pf
Coupling	
Triode Grid to Diode Plate (Max.)	0.08 Pf
Triode Grid (Sec. 1) to Triode Grid (Sec. 2) (Max.)	0.01 Pf
Triode Plate (Sec. 1) to Triode Plate (Sec. 2)	0.48 Pf
RATINGS (Design Maximum Rating System)	
Triode (Each Section)	
Plate Voltage (Max.)	330 Volts
Positive DC Grid Voltage (Max.)	0 Volt
Negative DC Grid Voltage (Max.)	50 Volts
Plate Dissipation (Max.)	1.0 Watts
Diode (Each Section)	
Diode Current for Continuous Operation	5.0 Ma
CHARACTERISTICS AND TYPICAL OPERATION	
Triode (Each Section)	
Plate Voltage	250 Volts
Grid Voltage	–2.0 Volts
Amplification Factor	100
Plate Resistance (Approx.)	52,700 Ohms
Transconductance	1900 μmhos
Plate Current	1.2 Ma
Diode (Each Section)	
Average Diode Current with 5.0 Voltage DC Applied	18 Ma

Color Television Type

SYNC SEPARATOR/CLIPPER(T) IF/VIDEO/AGC AMPLIFIER(P)

6AZ8

Medium Mu Triode and Sharp Cutoff Pentode

Construction ..... Miniature T-6-½
Base .....Button 9 Pin, E9-1
Basing 9ED
Outline.....6-2
Maximum Diameter .....0.875 In.
Maximum Seated Height .....1.938 In.
Maximum Overall Height .....2.188 In.