DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section 1	Section 2	Section 3
Grid to Plate	3.2	3.0	3.0 pf
Input: (G to K and H)	4.2	4.2	4.2 pf
Output: (P to K and H)	0.3	0.4	0.54 pf

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage	330 Volts
Grid Voltage	
Positive Bias Value	0 Volt
Plate Dissipation	2 Watts
Grid Circuit Resistance	
Fixed Bias	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

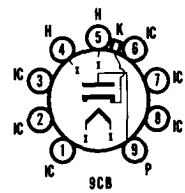
Plate Voltage	200 Volts
Plate Current	10 Ma
Amplification Factor	53
Plate Resistance (Approx.)	7500 Ohms
Transconductance	7000 μmhos
Ec1 for Ib = 100 μa	-7 Volts

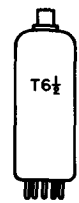
DAMPER

6AL3/EY88

Heater-Cathode Diode

Construction .....Miniature T-6½
Base E9-1
Top Cap C1-2
Basing 9CB
Outline 6-101
Maximum Diameter .....0.875 In.
Maximum Seated Height .....3.250 In.
Maximum Overall Height .....3.500 In.





ELECTRICAL DATA

HEATER OPERATION

Heater Voltage	6.3 Volts
Heater Current	1550 Ma
Maximum Heater-Cathode Voltage	6600 Volts

DIRECT INTERELECTRODE CAPACITANCES

Plate to All Other Elements	8.6 Pf
Cathode to Heater	2.0 Pf

RATINGS (Design Center Rating System)

Damper Service(1)

Peak Inverse Plate Voltage (Absolute Max.)	7500 Volts
Peak Plate Current	550 Ma
DC Plate Current	220 Ma
Plate Dissipation	5 Watts

NOTE:

(1) 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 not to exceed 15% of a horizontal scanning cycle.

Color Television Type

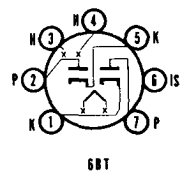
FM or TV DETECTOR

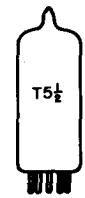
6AL5

3AL5, 12AL5

High Perveance Twin Diode

Construction .....Miniature T-5½
Base .....Button 7 Pin
Basing 6BT
Outline 5-1
Maximum Diameter .....0.750 In.
Maximum Seated Height .....1.500 In.
Maximum Overall Height .....1.750 In.





ELECTRICAL DATA

HEATER OPERATION

	3AL5	6AL5	12AL5
Heater Voltage	3.15	6.3	12.6 Volts
Heater Current	600	300	150 Ma
Heater Warm-up Time	11	—	— Seconds
Maximum Heater-Cathode Voltage	200	330	330 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded (1)	Unshielded
Plate Input (Each Section)	3.2	2.5 Pf
Plate to Plate	0.026	0.068 Pf
Cathode Input (Each Section)	3.6	3.4 Pf

RATINGS (Design Maximum Rating System)

Peak Inverse Plate Voltage (Max.)	330 Volts
Peak Plate Current Each Plate (Max.)	54 Ma
DC Output Current Each Plate (Max.)	9.0 Ma
AC Plate Voltage (Per Plate) (Max.)	117 Volts
Effective Plate Supply Impedance (Each Plate) (Min.)	300 Ohms

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 60 Ma	10 Volts

NOTE:

(1) Shield No. 316 connected to Pin No. 6.

6AL9

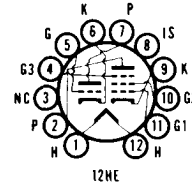
8AL9

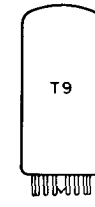
Color Television Type

GENERAL PURPOSE AMPLIFIER (T) VIDEO AMPLIFIER (P)

High Mu Triode and Sharp Cutoff Pentode

Construction.....Compactron T-9
Base E12-70
Basing 12HE
Outline 9-59
Maximum Diameter .....1.188 In.
Maximum Seated Height .....2.250 In.
Maximum Overall Height .....2.625 In.





ELECTRICAL DATA

HEATER OPERATION

	6AL9	8AL9
Heater Voltage	6.3	8.6 Volts
Heater Current	820	600 Ma
Heater Warm-up Time	—	11 Seconds
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 Section	
Grid to Plate	2.8 pf
Input: g to (h + Tk + Pk, g3, I.S.)	3.6 pf
Output: p to (h + Tk + Pk, g3, I.S.)	2.2 pf
Pentode Section	
Grid No. 1 to Plate (Max.)	0.16 pf
Input: g1 to (h + Pk, g3, I.S. + g2)	17 pf
Output: p to (h + Pk, g3, I.S. + g2)	6.4 pf

RATINGS (Design Maximum Values)

	Triode Section	Pentode Section
Plate Voltage	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	200 Volts
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid No. 2 Dissipation (Max.)	—	1.5 Watts
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.5	0.1 Megohm
Cathode Bias (Max.)	1.0	0.25 Megohm