

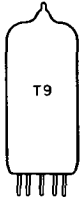
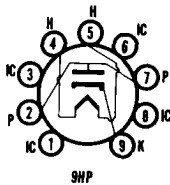
6BH3

17BH3, 22BH3

DAMPER

Heater-Cathode Diode

Construction .....Novar T-9  
Base .....Button 9 Pin, E9-75  
Basing<sup>(1)</sup> .....9HP  
Outline .....9-86  
Maximum Diameter .....1.188 In.  
Maximum Seated Height .....3.030 In.  
Maximum Overall Height .....3.410 In.



ELECTRICAL DATA

HEATER OPERATION

|                                         | 22BH3 | 17BH3 | 6BH3       |
|-----------------------------------------|-------|-------|------------|
| 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 .....          | 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

|                                                        |            |
|--------------------------------------------------------|------------|
| Peak Inverse Plate Voltage (Max.) <sup>(2)</sup> ..... | 5500 Volts |
| Plate Dissipation (Max.) .....                         | 6.5 Watts  |
| Steady State Peak Current (Max.) .....                 | 1100 Ma    |
| DC Plate Current (Max.) .....                          | 180 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.

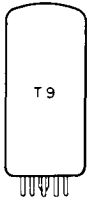
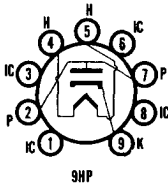
6BH3A

17BH3A, 22BH3A

DAMPER

Heater-Cathode Diode

Construction .....Novar T-9  
Base .....Button 9 Pin, E9-89  
Basing .....9HP  
Outline .....9-86  
Maximum Diameter .....1.188 In.  
Maximum Seated Height .....2.625 In.  
Maximum Overall Height .....3.005 In.  
6BH3A, 17BH3A, and 22BH3A are identical to 6BH3, 17BH3, and 22BH3 except for base with exhaust tip at bottom and shorter bulb.

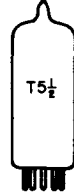
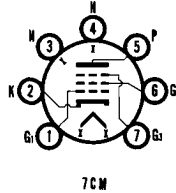


# RF AMPLIFIER

# 6BH6

## Sharp Cutoff Pentode

Construction ..... Miniature T-5½  
 Base ..... Button 7 Pin, E7-1  
 Basing ..... 7CM  
 Outline ..... 5-2  
     Maximum Diameter ..... 0.750 In.  
     Maximum Seated Height ..... 1.865 In.  
     Maximum Overall Height ..... 2.125 In.



## ELECTRICAL DATA

### HEATER OPERATION

Heater Voltage .....  
 Heater Current .....  
 Maximum Heater-Cathode Voltage .....

6.3 Volts  
 150 Ma  
 90 Volts

### DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate (Max.) .....  
 Input (Max.) .....  
 Output (Max.) .....

| Shielded | Unshielded |
|----------|------------|
| 0.0035   | 0.0035 Pf  |
| 5.4      | 5.4 Pf     |
| 4.4      | 4.4 Pf     |

### RATINGS (Design Center Rating System)

Plate Voltage (Max.) ..... 300 Volts  
 Grid No. 2 Supply Voltage (Max.) ..... 300 Volts  
 Grid No. 2 Voltage ..... See Rating Chart (Gen. Info. Sec.)  
 Plate Dissipation (Max.) ..... 3 Watts  
 Grid No. 2 Dissipation (Max.) ..... 0.5 Watt  
 Negative Grid No. 1 Voltage (Max.) ..... 50 Volts  
 Positive Grid No. 1 Voltage (Max.) ..... 0 Volt

## CHARACTERISTICS AND TYPICAL OPERATION

### Class A1 Amplifier

|                                   | 100                            | 250 Volts   |
|-----------------------------------|--------------------------------|-------------|
| Plate Voltage                     | 100                            | 250 Volts   |
| Grid No. 3 Voltage                | Connected to Cathode at Socket |             |
| Grid No. 2 Voltage                | 100                            | 150 Volts   |
| Grid No. 1 Voltage                | -1.0                           | -1.0 Volt   |
| Cathode Bias Resistor             | 200                            | 95 Ohms     |
| Plate Current                     | 3.6                            | 7.4 Ma      |
| Grid No. 2 Current                | 1.4                            | 2.9 Ma      |
| Transconductance                  | 3400                           | 4600 μmhos  |
| Plate Resistance (Approx.)        | 0.7                            | 1.4 Megohms |
| Grid No. 1 Voltage for Ib = 10 μa | -5.0                           | -7.7 Volts  |

Color Television Type

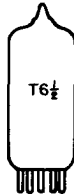
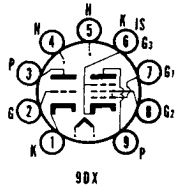
# SYNC SEP./CLIPPER/AMP. or SWEEP OSC. (T) VIDEO AMPLIFIER (P)

# 6BH8

## 8BH8

## Medium Mu Triode and Sharp Cutoff Pentode

Construction ..... Miniature T-6½  
 Base ..... Button 9 Pin, E9-1  
 Basing ..... 9DX  
 Outline ..... 6-3  
     Maximum Diameter ..... 0.875 In.  
     Maximum Seated Height ..... 2.375 In.  
     Maximum Overall Height ..... 2.625 In.



## ELECTRICAL DATA

### HEATER OPERATION

Heater Voltage .....  
 Heater Current .....  
 Heater Warm-up Time .....

8BH8  
 8.4  
 450  
 11

6BH8  
 6.3 Volts  
 600 Ma  
 11 Seconds