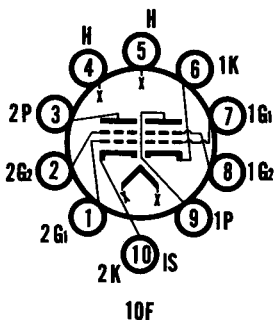




**SYLVANIA TYPES 6C9
17C9**
VHF DUO TETRODE



MECHANICAL DATA

| | |
|------------------------|---|
| Bulb..... | T-6 1/2 |
| Base..... | E10-73, 10 Pin, Center Pin Added to E9-1 Base |
| Outline..... | 6-13 |
| Basing..... | 10F |
| Cathode..... | Coated Unipotential |
| Mounting Position..... | Any |

ELECTRICAL DATA

HEATER CHARACTERISTICS AND RATINGS

Average Characteristics

| | 17C9 Series | 6C9 Parallel |
|---------------------|------------------|------------------------|
| Heater Voltage..... | 16.8 | 6.3 ¹ Volts |
| Heater Current..... | 150 ¹ | 400 Ma |

Ratings (Design Maximum Values)

| | Min-Max | Min-Max |
|---|-----------|-----------------|
| Heater Voltage ² | - | 5.7 - 6.9 Volts |
| Heater Current ² | 140 - 160 | .. - .. Ma |
| Maximum Heater-Cathode Voltage | | |
| Heater Negative with Respect to Cathode | | |
| Total D C and Peak..... | 200 | 200 Volts |
| Heater Positive with Respect to Cathode | | |
| D C..... | 100 | 100 Volts |
| Total D C and Peak..... | 200 | 200 Volts |

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

| | Section 1 | Section 2 |
|---|-----------|-------------------|
| Grid No. 1 to Plate..... | .055 | .06 μ f Max. |
| Input: 2g1 to (h+2k, I.S.+2g2+E.S.)..... | | 4.2 μ f |
| 1g1 to (h+1k, 1g2,+2k, I.S.+E.S.)..... | 4.4 | .. μ f |
| Output: 2p to (h+2k, I.S.+2g2+E.S.)..... | | 2.2 μ f |
| 1p to (h+1k,+1g2+2k, I.S.+E.S.)..... | 2.2 | .. μ f |
| Heater to Cathode..... | 4.2 | 4.8 μ f |
| Coupling: | | |
| Section 1 Plate to Section 2 Plate..... | | .003 μ f Max. |
| Section 1 Grid No. 1 to Section 2 Grid No. 1..... | | .001 μ f Max. |
| Section 1 Grid No. 1 to Section 2 Plate..... | | .001 μ f Max. |
| Section 2 Grid No. 1 to Section 1 Plate..... | | .032 μ f Max. |

RATINGS (Design Maximum Values)

| | |
|--|-----------------------|
| Plate Voltage..... | 250 Volts Max. |
| Grid No. 2 Supply Voltage..... | 180 Volts Max. |
| Grid No. 2 Voltage..... | See 6AM8 Rating Chart |
| Plate Dissipation (Both Plates)..... | 2.5 Watts Max |
| Plate Dissipation (Each Section)..... | 1.5 Watts Max |
| Grid No. 2 Dissipation (Each Section)..... | 0.5 Watts Max |
| Cathode Current (Each Section)..... | 20 Ma Max. |

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

| | |
|---|-----------------|
| Plate Voltage..... | 125 Volts |
| Grid No. 2 Voltage..... | 80 Volts |
| Grid No. 1 Voltage..... | -1 Volt |
| Plate Current..... | 10 Ma |
| Grid No. 2 Current..... | 1.5 Ma |
| Transconductance..... | 8000 μ mhos |
| Plate Resistance (approx.)..... | 0.1 Megohm |
| Grid No. 1 Voltage for I _b = 20 μ a (approx.)..... | -6 Volts |

NOTES:

1. For series/parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater current/voltage.
2. Heater voltage supply variations shall be restricted to maintain heater voltage/current within the specified values.

APPLICATION

Types 6C9 and 17C9 are duo tetrodes contained in a T-6 1/2 10 pin bulb. They are designed for service as VHF RF amplifiers and VHF autodyne mixers. Except for heater characteristics, Types 6C9 and 17C9 are identical.

SYLVANIA TYPES 6C9, 17C9 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS

