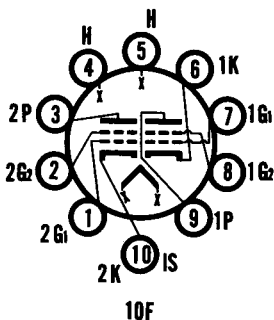




**SYLVANIA TYPES 6C9
17C9**
VHF DUO TETRODE



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

