Color Television Type

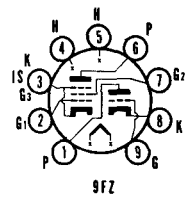
VHF OSCILLATOR and MIXER

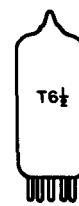
6KZ8

5KZ8, 9KZ8

Medium Mu Triode and Sharp Cutoff Pentode

Construction .....Miniature T-6½
Base .....Button 9 Pin, E9-1
Basing 9FZ
Outline 6-2
Maximum Diameter .....0.875 In.
Maximum Seated Height .....1.937 In.
Maximum Overall Height .....2.187 In.





ELECTRICAL DATA

HEATER OPERATION

	9KZ8	5KZ8	6KZ8
Heater Voltage	9.45	4.7	6.3 Volts
Heater Current	300	600	450 Ma
Heater Warm-up Time	11	11	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 (Shielded)(1)

Triode Section	
Grid to Plate	1.6 Pf
Input: g to (Tk + Pk + g3 + h + IS)	3.2 Pf
Output: p to (Tk + Pk + g3 + h + IS)	1.8 Pf
Heater to Cathode	3.2(2) Pf
Pentode Section	
Grid No. 1 to Plate (Max.)	0.01 Pf
Input: g1 to (k + g3 + g2 + h + IS)	5.5 Pf
Output: p to (k + g3 + g2 + h + IS)	3.4 Pf
Heater to Cathode	3.2(2) Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Converter Service		
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Plate Dissipation (Max.)	2.5	2.5 Watts
Screen Dissipation (Max.)	—	0.55 Watt
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.25	0.25 Megohm
Self Bias (Max.)	0.5	0.5 Megohm

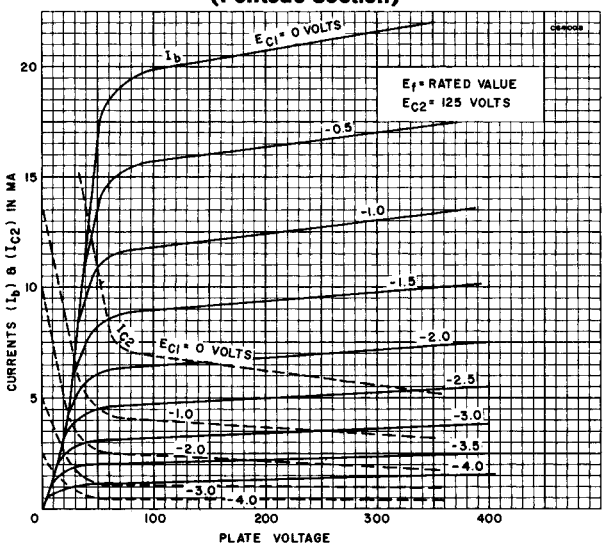
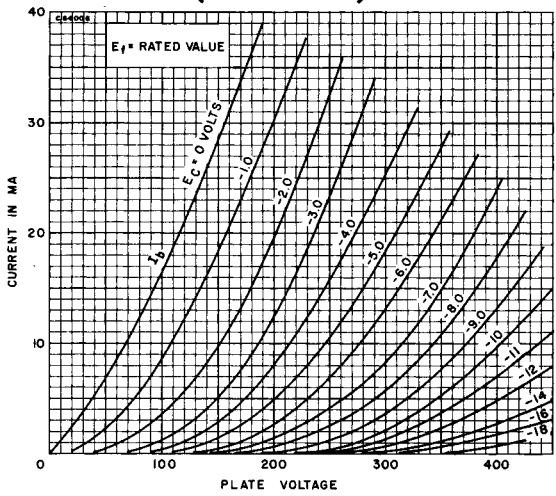
CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	–1	–1 Volt
Plate Current	13.5	12 Ma
Grid No. 2 Current	—	4.0 Ma
Transconductance	8500	7500 μmhos
Amplification Factor	46	—
Plate Resistance (Approx.)	5400	200,000 Ohms
Ec1 for Ib = 10 μa (Approx.)	–8	–8 Volts

NOTES:

(1) Shield No. 315 connected to cathode.
(2) Shield No. 315 connected to ground.

AVERAGE PLATE CHARACTERISTICS
(Pentode Section)



AVERAGE PLATE CHARACTERISTICS
(Triode Section)