CHARACTERISTICS AND TYPICAL OPERATION
Class A1 Amplifier

Plate Voltage	125 Volts
Grid No. 2 Voltage	125 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Cathode Bias Resistor	56 Ohms
Plate Current	14 Ma
Grid No. 2 Current	3.6 Ma
Transconductance	8000 μmhos
Plate Resistance (Approx.)	260,000 Ohms
Ec1 for Gm = 50 μmhos (Approx.)	−19 Volts
Gm with Ec1 = −4.5 V, RK = 0	700 μmhos

NOTE:
(1) External Shield No. 316 connected to Pin No. 2 (cathode) at socket.

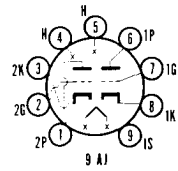
VHF CASCODE AMPLIFIER

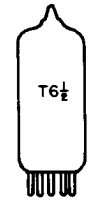
6BZ8

4BZ8

Medium Mu-Semi-remote
Cutoff Double Triode

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





ELECTRICAL DATA

HEATER OPERATION

	4BZ8	6BZ8
Heater Voltage (AC or DC)	4.2	6.3 Volts
Heater Current	600	400 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 (Shielded)

Cascode Operation	**Section No. 1**	**Section No. 2**
Grid to Plate	1.15	— Pf
Plate to Cathode	—	0.15 Pf
Triode No. 1 Plate to Triode No. 2 Plate	0.010	— Pf

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage (Max.)	250 Volts
Plate Dissipation (Max.)	2.2 Watts
Cathode Current (Max.)	20 Ma
Grid Circuit Resistance (Max.)	0.1 Megohm

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)
Class A1 Amplifier

Plate Voltage	125 Volts
Cathode Resistor	100 Ohms
Plate Current	10 Ma
Transconductance	8000 μmhos
Amplification Factor	45
Plate Resistance	5600 Ohms
Grid Voltage (Approx.) for Gm = 50 μmhos	−13 Volts
Cascode Operation at Eb = 250 Volts, Ec1 = −0.5 Volts	
Transconductance	10,000 μmhos
Plate Current	15 Ma

NOTE:
(1) Use external shield No. 315.