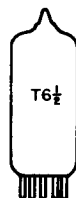
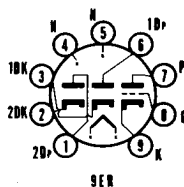


6BN8**8BN8**

Color Television Type

**PHASE/RATIO DETECTOR
OR DISCRIMINATOR
AF/BURST AMPLIFIER OR OSCILLATOR****Double Diode and High Mu Triode**

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

**ELECTRICAL DATA
HEATER OPERATION**

	8BN8	6BN8
Heater Voltage.....	8.4	6.3 Volts
Heater Current.....	450	600 Ma
Heater Warm-up Time.....	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 (Unshielded)**Triode**

Grid to Plate.....	2.5 Pf
Input: g to (h + Tk).....	3.6 Pf
Output: p to (h + Tk).....	0.25 Pf

Diodes

No. 1 Diode Plate to No. 1 Diode Cathode + Heater.....	1.9 Pf
No. 2 Diode Plate to No. 2 Diode Cathode + Heater.....	1.9 Pf
No. 1 Diode Cathode to No. 1 Diode Plate + Heater.....	4.8 Pf
No. 2 Diode Cathode to No. 2 Diode Plate + Heater.....	4.8 Pf

Coupling

No. 1 Diode Plate to Triode Grid (Max.).....	0.060 Pf
No. 2 Diode Plate to Triode Grid (Max.).....	0.10 Pf
No. 1 Diode Cathode to All:	
1Dk to (h + Tk + 2Dk + Tp + 1Dp + Tg + 2Dp).....	5.0 Pf
No. 2 Diode Cathode to All:	
2 Dk to (h + Tk + 1Dk + Tp + 1Dp + 2Dp + Tg).....	5.0 Pf
No. 1 Diode Plate to No. 2 Diode Plate (Max.).....	0.070 Pf
No. 1 Diode Plate to All:	
1DP to (h + Tk + 1Dk + 2Dk + Tp + 2Dp + Tg).....	3.0 Pf
No. 2 Diode Plate to All:	
2DP to (h + Tk + 1Dk + 2Dk + Tp + 1Dp + Tg).....	3.0 Pf

RATINGS (Design Maximum Rating System)**Triode Section**

Plate Voltage (Max.).....	330 Volts
Positive DC Grid Voltage (Max.).....	0 Volt
Plate Dissipation (Max.).....	1.7 Watts
Grid Circuit Resistance (Max.).....	1.0 Megohm

Diode Section

Peak Plate Current (Each Plate) (Max.).....	54 Ma
DC Current (Each Plate) (Max.).....	9 Ma

CHARACTERISTICS AND TYPICAL OPERATION**Triode Section, Class A1 Amplifier**

Plate Voltage.....	100	250 Volts
Grid Voltage.....	-1	-3 Volts
Plate Current.....	1.5	1.6 Ma
Transconductance.....	3500	2500 μ mhos
Amplification Factor.....	75	70
Plate Resistance (Approx.).....	21,000	28,000 Ohms
Grid Voltage (Approx.) for Ib = 10 μ a.....	-2.5	-5.5 Volts

Diode Section

Average Current Each Plate at 10 Volts DC ⁽¹⁾	50 Ma
Voltage Drop Each Section at Ib = 9 Ma DC.....	2.6 Volts

NOTE:

(1) Test conditions only.