

RATINGS (Design Center Rating System)

	Triode	Pentode
Plate Supply Voltage (Max.)	550	900 Volts
Plate Voltage (Max.)	300	600 Volts
Grid No. 2 Supply Voltage (Max.)	—	550 Volts
Grid No. 2 Voltage (Max.)	—	300 Volts
Cathode Current (Max.)	15	50 Ma
Plate Dissipation (Max.)	1	7 Watts
Grid No. 2 Input (Max.)	—	1.8 Watts
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	1	1 Megohm
Cathode Bias (Max.)	2	2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

	Triode	Pentode
Plate Voltage	100	200 Volts
Grid No. 2 Voltage	—	200 Volts
Grid No. 1 Voltage	0	-16 Volts
Amplification Factor	70	9.5 ⁽¹⁾
Plate Resistance	—	20,000 Ohms
Transconductance	2500	6400 μ mhos
Plate Current	3.5	35 Ma
Grid No. 2 Current	—	7 Ma

NOTE:

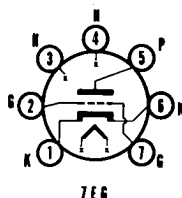
(1) Grid No. 1 to Grid No. 2.

6BN4A**2BN4A, 3BN4A**

Color Television Type
VHF AMPLIFIER

Medium Mu Triode

Construction Miniature T-5½
Base Button 7 Pin, E7-1
Basing 7EG
Outline 5-2
 Maximum Diameter 0.750 In.
 Maximum Seated Height 1.875 In.
 Maximum Overall Height 2.125 In.

**ELECTRICAL DATA****HEATER OPERATION**

	2BN4A	3BN4A	6BN4A
Heater Voltage	2.35	3.0	6.3 Volts
Heater Current	600	450	200 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			100 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Unshielded	Shielded
Grid to Plate	1.1	1.2 Pf
Input: g to (h + k)	2.9	3.2 Pf
Output: p to (h + k)	0.7	1.4 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	275 Volts
Plate Dissipation (Max.)	2.2 Watts
Positive DC Grid Voltage (Max.)	0 Volt
DC Cathode Current (Max.)	22 Ma
Grid Circuit Resistance (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	150 Volts
Cathode Bias Resistor	220 Ohms
Plate Current	9.0 Ma
Transconductance	7700 μ mhos
Amplification Factor	43
Plate Resistance (Approx.)	5400 Ohms
Ec for Ib = 100 μ A (Approx.)	-6 Volts