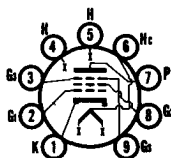


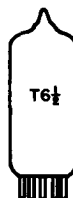
Color Television Type
VIDEO AMPLIFIER

12BY7A**High Transconductance Pentode**

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



9BF

**ELECTRICAL DATA**
HEATER OPERATION

Heater Voltage.....	12.6/6.3 Volts
Heater Current	300/600 Ma
Heater Warm-up Time ⁽¹⁾	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)

Grid No. 1 to Plate	0.063 Pf
Input	10.2 Pf
Output	3.5 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Plate Dissipation (Max.)	6.5 Watts
Grid No. 2 Voltage (Max.)	180 Volts
Grid No. 2 Dissipation (Max.)	1.1 Watts
Grid No. 1 Voltage	
Negative (Max.).....	50 Volts
Positive (Max.).....	0 Volt
Grid No. 1 Resistance	
Fixed Bias (Max.)	0.25 Megohm
Cathode Bias (Max.)	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

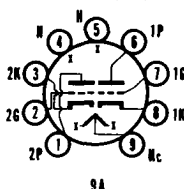
Plate Voltage	250 Volts
Grid No. 2 Voltage	180 Volts
Cathode Bias Resistor	100 Ohms
Plate Current	26 Ma
Grid No. 2 Current	5.75 Ma
Transconductance	11,000 μ mhos
Plate Resistance.....	93,000 Ohms
Amplification Factor	1035
Grid No. 1 Voltage for $I_b = 20 \mu$ a	-11.6 Volts
Amplification Factor (Triode Connected)	28.5

NOTE:

(1) Applies to parallel connection only.

SYNC SEPARATOR and AMPLIFIER**12BZ7****Double High Mu Triode**

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



9A

