

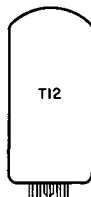
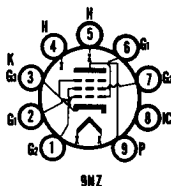
HORIZONTAL DEFLECTION AMPLIFIER

6GT5A

12GT5A, 17GT5A

Beam Power Pentode

Construction Novar T-12
Base Novar Button 9 Pin, E9-88
(Exhaust Tip on Base)
Basing 9NZ
Outline 12-95
Maximum Diameter 1.562 In.
Maximum Seated Height 2.500 In.
Maximum Overall Height 2.880 In.
The 6GT5A, 12GT5A, and 17GT5A are identical
to the 6GT5, 12GT5, and 17GT5 except
for base with exhaust tip at bottom and
shorter bulb.



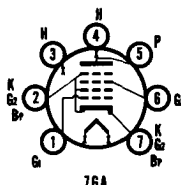
VHF AMPLIFIER

6GU5

2GU5, 3GU5

Shadow Grid Beam Pentode

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



ELECTRICAL DATA HEATER OPERATION

Heater Voltage
Heater Current
Heater Warm-up Time

2GU5

2.4
600
11

3GU5

3.1
450
11

6GU5

6.3 Volts
220 Ma
— Seconds

Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode

Total DC and Peak

200 Volts

Heater Positive with Respect to Cathode

DC

Total DC and Peak

100 Volts
200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate

0.018 Pf

Input: g1 to (h + k + g2 + g3 + bp)

7.0 Pf

Output: p to (h + k + g2 + g3 + bp)

3.2 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)

300 Volts

Screen Voltage (Max.)

150 Volts

Positive DC Grid No. 1 Voltage (Max.)

0 Volt

Negative DC Grid No. 1 Voltage (Max.)

50 Volts

Plate Dissipation (Max.)

3.0 Watts

Screen Dissipation (Max.)

0.15 Watt

DC Cathode Current (Max.)

20 Ma

Grid No. 1 Circuit Resistance

With Fixed Bias (Max.)

0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage

135

275 Volts

Screen Voltage

135

135 Volts

Grid No. 1 Voltage

-0.4

-0.4 Volt

Plate Resistance (Approx.)

0.67

0.165 Megohm

Transconductance

15,000

15,500 μ mhos

Plate Current

9.0

10 Ma

Screen Current

0.25

0.17 Ma

Noise Figure

Measured at 200 Hz

5.9

5.7 Decibels

Grid No. 1 Voltage (Approx.)

-6.2

-6.5 Volts

Gm = 100 μ mhos

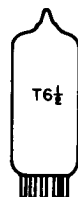
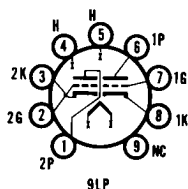
6GU7

8GU7

Color Television Type

**VERTICAL/HORIZONTAL OSC.
or CHROMA AMPLIFIER****Medium Mu Twin Triode**

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

**ELECTRICAL DATA
HEATER OPERATION**

	8GU7	6GU7
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)

	Section No. 1	Section No. 2
Grid to Plate	3.0	3.0 Pf
Input: g to (h + k)	3.4	3.6 Pf
Output: p to (h + k)	0.44	0.34 Pf
Plate of Section No. 1 to Plate of Section No. 2	1.0	Pf

RATINGS (Design Maximum Rating System)

DC Plate Voltage (Max.) ⁽¹⁾	330 Volts
Positive Grid Voltage (Max.)	0 Volt
Plate Dissipation (Max.) ⁽²⁾	3 Watts
Grid Circuit Resistance	
Fixed Bias (Max.)	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250 Volts
Grid No. 1 Voltage	-10.5 Volts
Plate Current	11.5 Ma
Transconductance	3100 μ mhos
Amplification Factor	17
Plate Resistance (Approx.)	5500 Ohms
Grid Voltage for $i_b = 50 \mu$ a (Approx.)	-23 Volts
Plate Current at $E_c = -14$ Vdc.	4 Ma

NOTES:

- (1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (2) In stages operating with grid leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.

6GV5

17GV5

**HORIZONTAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction Compactron T-12
 Base Button 12 Pin, E12-74
 Top Cap C1-3
 Basing 12DR
 Outline 12-79
 Maximum Diameter 1.563 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.625 In.

