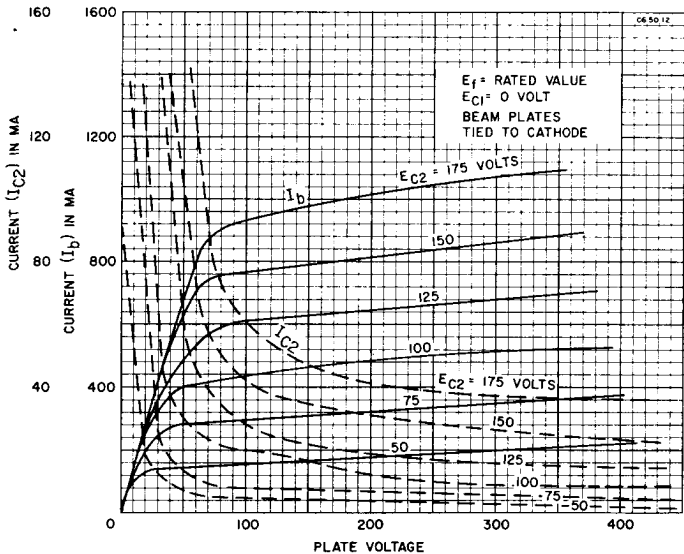


Plate Current	130 Ma'
Grid No. 2 Current	2.8 Ma
Transconductance	11,500 μ mhos
Amplification Factor ⁽³⁾	3
Plate Resistance	5500 Ohms
Ec1 for Ib = 1 Ma (Approx.)	-54 Volts

INSTANTANEOUS PLATE KNEE VALUES
Eb = 62 V, Ec2 = 125 V and Ec1 = 0 V; Eb = 70 V (12JS6)
Ib = 570 Ma; and Ic2 = 34 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) With Grid Bias Feedback HV Regulation.
 - (3) Amplification factor with tube operation as a triode with 125 volts on the plate and Grid No. 2 and -25 volts on Grid No. 1.
 - (4) With DC or Pulse Shunt HV Regulation.

AVERAGE PLATE CHARACTERISTICS



HORIZONTAL DEFLECTION
AMPLIFIER

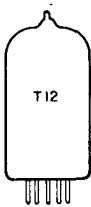
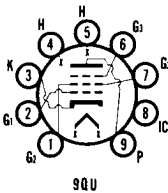
6JT6
12JT6, 17JT6

Beam Power Pentode

Construction	Novar T-12
Base	Button 9 Pin, E9-76
Basing	9QU
Outline	
Maximum Diameter	1.563 In.
Maximum Seated Height	2.800 In.
Maximum Overall Height	3.180 In.

ELECTRICAL DATA
HEATER OPERATION

Heater Voltage	17JT6	12JT6	6JT6
Heater Current	16.8	12.6	6.3 Volts
Heater Warm-up Time	450	600	1200 Ma
	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)

Grid No. 1 to Plate	0.26 Pf
Input: G1 to (k, g3, g2, H)	15.0 Pf
Output: P to (k, g3, g2, H)	6.5 Pf

RATINGS (Design Maximum Rating System)**Horizontal Deflection Amplifier⁽¹⁾**

DC Plate Supply Voltage (Max.).....	770 Volts
Peak Positive Pulse Plate Voltage (Max.)	6500 Volts
Peak Negative Pulse Plate Voltage (Max.)	1500 Volts
DC Grid No. 3 Voltage (Max.)	70 Volts
DC Grid No. 2 Voltage (Max.)	220 Volts
DC Grid No. 1 Voltage (Max.)	55 Volts
Peak Negative Pulse Grid No. 1 Voltage	330 Volts
Cathode Current	
Peak (Max.).....	550 Ma
Average (Max.)	175 Ma
Grid No. 2 Input (Max.)	3.5 Watts
Plate Dissipation (Max.) ⁽²⁾	17.5 Watts
Bulb Temperature (At Hottest Point) (Max.)	240 °C
Grid No. 1 Circuit Resistance	
For Grid-Resistor-Bias Operation (Max.)	1 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	250 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 2 Voltage	150 Volts
Grid No. 1 Voltage	-22.5 Volts
Amplification Factor	4.4
Plate Resistance (Approx.)	15,000 Ohms
Transconductance	7100 μ mhos
Plate Current	70 Ma
Grid No. 2 Current	2.1 Ma
Grid No. 1 Voltage for Ib = 1 Ma	-42 Volts

INSTANTANEOUS PLATE KNEE VALUES

Eb = 60 V, Ec2 = 150 V, and Ec1 = 0 V

Ib = 390 Ma and Ic2 = 32 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 cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (3) Amplification factor with tube operating as a triode with 150 volts on the plate and Grid No. 2 and -22.5 volts on Grid No. 1.

6JT6A**12JT6A, 17JT6A****HORIZONTAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction	Novar T-12
Base	Button 9 Pin, E9-88
Basing	.9QU
Outline	12-95
Maximum Diameter	1.563 In.
Maximum Seated Height	2.500 In.
Maximum Overall Height	2.880 In.

The Types 6JT6A, 12JT6A, and 17JT6A are identical to the Types 6JT6, 12JT6, and 17JT6 except for base with exhaust tip on bottom and shorter bulb.

