Beam Triode

Construction .......... Compactron T-12
Base .................. Button 12 Pin, E12-74
Basing .......................... 12GY
Outline .................... 12-60
Maximum Diameter ........ 1.563 In.
Maximum Seated Height .... 3.500 In.
Maximum Overall Height .... 3.875 In.

**ELECTRICAL DATA**

**HEATER OPERATION**

Heater Voltage ................................ 6.3 Volts
Heater Current ................................ 1500 Ma
Maximum Heater-Cathode Voltage
Heater Negative with Respect to Cathode
Total DC and Peak ......................... 450 Volts
Heater Positive with Respect to Cathode
DC ......................................... 100 Volts
Total DC and Peak .................... 200 Volts

**DIRECT INTERELECTRODE CAPACITANCES (Unshielded)**

Grid to Plate ................................ 1.6 Pf
Input: \( g \to (h + k + bp) \) ................. 24 Pf
Output: \( p \to (h + k + bp) \) .................. 6.5 Pf

**RATINGS (Design Maximum Rating System)**

High-Voltage Regulator Service
Peak Plate Voltage ........................ 5500 Volts
Plate Dissipation .................. 30 Watts
Peak Plate Current .............. 325 Ma
Grid-Circuit Resistance\(^{(1)}\) ....... 0.1 Megohm
Bulb Temperature at Hottest Point 
\( 220^\circ\) C

**CHARACTERISTICS AND TYPICAL OPERATION**

Pulse Plate Voltage\(^{(2)}\) ............... 3500 Volts
Beam Plate Connected to Cathode at Socket 
Negative DC Grid Voltage ................. 4.4 Volts
Peak Plate Current .............. 300 Ma
Amplification Factor .................. 300
Transconductance .................. 65,000 \( \mu \)hms
Plate Resistance, (Approx.) ............ 4600 Ohms
Grid Voltage, (Approx.) 
\( E_b = 3500 \) Volts, \( I_b = 1.0 \) 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. Larger values of grid-circuit resistance may be used if provisions are made to protect the tube.
3. Duty cycle of the pulse must be less than 2.5%.