MECHANICAL DATA

Bulb: ST-16
Base: Medium Shell Octal
Basing: 5BT
Cap: Small
Cathode: Unipotential
Mounting Position: Vertical, Base Up or Down; Horizontal, With Plane of Pins 2 and 7 Vertical

ELECTRICAL DATA

HEATER CHARACTERISTICS
Heater Voltage: 6.3 Volts
Heater Current: 900 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)
Control Grid to Plate: 0.65 μF Max.
Input: 11.0 μF
Output: 6.3 μF

RATINGS (Design Center Values — except as noted)
Horizontal Deflection Amplifier1
DC Plate Supply Voltage: 700 Volts Max.
Peak Positive Plate Voltage: 6600 Volts Abs. Max.
Peak Negative Plate Voltage: 1500 Volts Max.
DC Plate Current: 100 Ma Max.
Plate Dissipation: 20 Watts Max.
Screen Voltage: 350 Volts Max.
Screen Dissipation: 3.2 Watts Max.
Negative Control Grid Voltage: 50 Volts Max.
Peak Negative Control Grid Voltage: 400 Volts Max.
Control Grid Resistance: 1.0 Megohm Max.
Heater-Cathode Voltage: 135 Volts Max.
Bulb Temperature (at hottest point): 210° C Max.

TYPICAL OPERATING CONDITIONS2
Horizontal Deflection Amplifier1
DC Plate Supply Voltage
From DC Power Supply: 400 Volts
From DC Boost: 150 Volts
Total Plate Supply Voltage: 550 Volts
Screen Voltage: 250 Volts
Cathode Bias Resistor: 100 Ohms
Control Grid Signal Voltage
Sawtooth Component: 75 Volts
Negative Peaking Component: 50 Volts
Plate Current: 85 Ma
Screen Current: 10 Ma
Peak Cathode Current: 300 Ma
Average Control Grid Current: 30 μA
Peak Positive Plate Voltage: 5500 Volts
Peak Negative Plate Voltage: 550 Volts
Control Grid Circuit Resistance: 1.0 Megohm

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 scanning cycle.
2. For 17° 70° deflection CR tube with 12 Kv second anode voltage.

SYLVANIA ELECTRIC PRODUCTS INC.
AVERAGE PLATE CHARACTERISTICS

E_B = 63 VOLTS
E_C = 250 VOLTS

PLATE MILLIAMPERES

PLATE VOLTS
AVerage Characteristics

\( E_f = 6.3 \text{ volts} \)
\( E_c = 0 \text{ volts} \)

Screen (\( I_{c2} \)) vs. Plate Volts

\begin{align*}
    & 0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000 \\
    & 175, 150, 125, 100, 75, 50, 25, 0
\end{align*}

Current (milliamperes)