CHARACTERISTICS

GENERAL DATA
Focusing Method .............. Magnetic
Deflecting Method ........... Magnetic
Deflecting Angle (approx.)
   Horizontal .................. 65 Degrees
   Diagonal .................... 70 Degrees
Phosphor ..................... P4
Fluorescence .................. White
Persistence ................... Medium
Faceplate ..................... Gray Filter Glass
Light Transmittance (approx.) .... 72 Percent

ELECTRICAL DATA
Heater Voltage ............... 6.3 Volts
Heater Current (approx.) .... 0.6 Ampere
Direct Inter-electrode Capacitances (approx.)
   Cathode to All Other Electrodes .... 5 μf
   Grid No. 1 to All Other Electrodes ... 6 μf
   External Conductive Coating to Anode4 .......... 750 μf Max.
   . ................................ 500 μf Min.
Ion Trap Magnet ............ External, Single Field Type

MECHANICAL DATA
Minimum Useful Screen Dimensions .... 10¾ x 14¼ Inches
Bulb Contact, (Recessed Small Cavity Cap) ...... J1-21
Base, (Small Shell Duodecal 5-Pin) ........ B5-57
Basing ....................... 12N

RATINGS
MAXIMUM RATINGS (Design Center Values)
   Anode Voltage ............. 18,000 Volts d.c
   Grid No. 2 Voltage .......... 500 Volts d.c
   Grid No. 1 Voltage
      Negative Bias Value ................ 125 Volts d.c
      Positive Bias Value ............... 0 Volts d.c
      Positive Peak Value .............. 2 Volts
   Peak Heater-Cathode Voltage
      Heater Negative with Respect to Cathode
         During Warm-up Period not to Exceed 15 Seconds .... 410 Volts d.c
         After Equipment Warm-up Period .................. 150 Volts d.c
      Heater Positive with Respect to Cathode ............. 150 Volts d.c

RECOMMENDED OPERATING CONDITIONS
   Anode Voltage4 .......... 16,000 Volts d.c
   Grid No. 2 Voltage .......... 500 Volts d.c
   Grid No. 1 Voltage5 Required for Cutoff .......... -33 to -77 Volts d.c
   Focusing Coil Current (approx.) 6 .......... 100 Ma d.c
   Ion Trap Magnet Strength (approx.) ........ 45 Gausses

CIRCUIT VALUES
   Grid No. 1 Circuit Resistance .......... 1.5 Megohms Max.

NOTES:
1. External conductive coating must be grounded.
2. Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than this value.
3. Visual extinction of undeflected focused spot.
4. For JETEC focusing coil 109 or equivalent three inches from reference line, bias adjusted to 20 foot lamberts on a 10¾ x 14¼ inch picture area sharply focused at center of screen.

SYLVANIA ELECTRIC PRODUCTS INC.
TELEVISION PICTURE TUBE DIVISION
SENeca FALLS, NEW YORK
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DIAGRAM NOTES:
1. Reference line is determined by the plane of the upper edge of the reference line gauge (RTMA No. 110) when the gauge is resting on the glass cone.
2. Anode aligns with pin position No. 6 ±30 degrees.

WARNING:
X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.