

CHARACTERISTICS

GENERAL DATA

|                               |                   |
|-------------------------------|-------------------|
| Focusing Method               | Magnetic          |
| Deflecting Method             | Magnetic          |
| Deflecting Angle              |                   |
| Horizontal                    | 66 Degrees        |
| Diagonal                      | 70 Degrees        |
| Phosphor                      | P4                |
| Fluorescence                  | White             |
| Persistence                   | Medium            |
| Faceplate                     | Gray Filter Glass |
| Light Transmittance (approx.) | 66 Percent        |

ELECTRICAL DATA

|                                                   |                                      |
|---------------------------------------------------|--------------------------------------|
| Heater Voltage                                    | 6.3 Volts                            |
| Heater Current (approx.)                          | 0.6 Ampere                           |
| Direct Interelectrode Capacitances (approx.)      |                                      |
| Cathode to All Other Electrodes                   | 5 $\mu$ f                            |
| Grid No. 1 to All Other Electrodes                | 6 $\mu$ f                            |
| External Conductive Coating to Anode <sup>1</sup> | 750 $\mu$ f Max.<br>500 $\mu$ f Min. |
| Ion Trap Magnet                                   | External, Single Field Type          |

MECHANICAL DATA

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Minimum Useful Screen Dimensions          | 14 $\frac{1}{4}$ x 10 $\frac{3}{4}$ 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 dc |
| Grid No. 2 Voltage                             | 410 Volts dc    |
| Grid No. 1 Voltage                             |                 |
| Negative Bias Value                            | 125 Volts dc    |
| Positive Bias Value                            | 0 Volts dc      |
| 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 dc    |
| After Equipment Warm-up Period                 | 150 Volts dc    |
| Heater Positive with Respect to Cathode        | 150 Volts dc    |

RECOMMENDED OPERATING CONDITIONS

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| Anode Voltage <sup>2</sup>                          | 16,000 Volts dc     |
| Grid No. 2 Voltage                                  | 300 Volts dc        |
| Grid No. 1 Voltage Required for Cutoff <sup>3</sup> | -33 to -77 Volts dc |
| Focusing Coil Current (approx.) <sup>4</sup>        | 100 Ma dc           |
| Ion Trap Magnet Field Strength (approx.)            | 45 Gauss            |

CIRCUIT VALUES

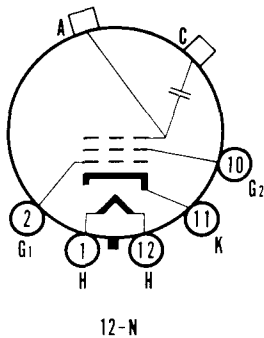
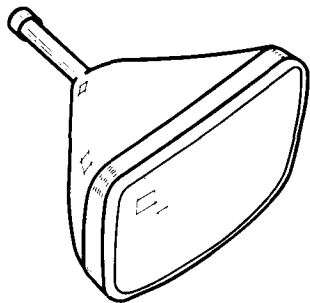
|                               |                  |
|-------------------------------|------------------|
| Grid No. 1 Circuit Resistance | 1.5 Megohms Max. |
|-------------------------------|------------------|

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 10 $\frac{3}{4}$  x 14 $\frac{1}{4}$  inch picture area sharply focused at center of screen.

QUICK REFERENCE DATA

Television Picture Tube  
17" Direct Viewed  
Rectangular Glass Type  
Gray Filter Glass  
Magnetic Deflection  
Magnetic Focus  
Single Field Ion Trap  
External Conductive Coating



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