



## ELECTRONIC TUBE REFERENCE

## 7UP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

CATHODERAY

Seven-inch magnetic-focus and magnetic-deflection CRT with a relatively large useful scan and P7 long-persistence phosphor. Multiple manufacturer sources support radar and persistent instrument-display applications.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 600 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                     |         |
|-------------------------------------------------------------------------------------|---------|
| SECTION 1 Cathode Ray                                                               |         |
| MAXIMUM PLATE VOLTAGE                                                               | 10000 V |
| MAXIMUM SCREEN VOLTAGE                                                              | 770 V   |
| Promoted fields mapped by printed headings; additional data retained in parameters. |         |

Seven-inch magnetic-focus and magnetic-deflection cathode-ray tube with a relatively large useful scan and P7 phosphor.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 General Electric Transmitting Types

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1950 GENERAL ELECTRIC TRANSMITTING TYPES

## Section 1 · Cathode Ray

| CHARACTERISTICS   |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Focusing method   | Magnetic        | —                |
| Deflection method | Magnetic        | —                |
| Phosphor          | P7              | —                |



## SOURCE OPERATING CONDITIONS

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# 1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1950 SYLVANIA

## Section 1 · Cathode Ray

| CHARACTERISTICS   |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Focusing method   | Magnetic        | —                |
| Deflection method | Magnetic        | —                |



# 1960 Du Mont

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 DU MONT

## Section 1 · Cathode Ray

| CHARACTERISTIC              |                 |                  |
|-----------------------------|-----------------|------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage              | 6.3 V           | —                |
| Heater Current              | 600 mA          | —                |
| DeflectionMethod            | Magnetic        | —                |
| FocusingMethod              | Magnetic        | —                |
| Deflection Angle            | 53 degree       | —                |
| MinimumUsefulScreenDiameter | 6 in            | —                |
| Phosphor                    | P7              | —                |

| OTHER                     |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| AcceleratorVoltageMaximum | 10000 V         | —                |



SOURCE DATA APPENDIX

# 1965 Sylvania Electronic Tubes Vol3

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 SYLVANIA ELECTRONIC TUBES VOL3

## Section 1 · Cathode Ray

| OTHER                             |                 |                                                   |
|-----------------------------------|-----------------|---------------------------------------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE                                  |
| Maximum Grid No. 2/screen voltage | 770 V           | Published maximum Grid No. 2 voltage              |
| Anode voltage <sub>el</sub>       | 200 V           | Anode voltage <sub>el</sub> ..... 13'200 Volts dc |
| Grid No. 2 Voltage                | 770 V           | Grid No. 2 Voltage ..... 770 Volts dc             |



