

ELECTRONIC TUBE REFERENCE

# 10WP19A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**CATHODERAY**

Ten-inch cathode-ray display tube with electrostatic focusing, magnetic deflection, and an aluminized P19 orange long-persistence screen. Documentation also identifies ruggedized construction for military or professional equipment, distinguishing it from the basic 10WP19.

## 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

|                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION1</b> Cathode Ray                                                                                                                           |
| <i>No fixed ratings recorded.</i>                                                                                                                     |
| <i>Published ratings and characteristics promoted semantically from the approved source; repeated identical sections compressed where applicable.</i> |

The Sylvania 10WP19A is a 10-inch P19 special-purpose CRT with electrostatic focus and magnetic deflection.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1958 Compagnie General

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

## 1958 COMPAGNIE GENERAL

## Section 1 · Cathode Ray

| CHARACTERISTIC          |                 |                                 |
|-------------------------|-----------------|---------------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE                |
| Focusing Method         | Electrostatic   | —                               |
| Deflection Method       | Electromagnetic | —                               |
| Aluminized Screen       | Yes             | —                               |
| High Definition Screen  | Yes             | —                               |
| Ruggedized Construction | Yes             | Military/professional equipment |



## SOURCE OPERATING CONDITIONS

# 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

| CHARACTERISTICS   |                    |                  |
|-------------------|--------------------|------------------|
| PARAMETER         | PUBLISHED VALUE    | CONDITION / NOTE |
| Heater Voltage    | 6.3 V              | —                |
| Heater Current    | 600 mA             | —                |
| Focusing Method   | Electrostatic text | —                |
| Deflection Method | Magnetic text      | —                |
| Phosphor          | P19 text           | —                |
| Fluorescence      | Orange text        | —                |
| Persistence       | Long text          | —                |

| PARAMETER           | PUBLISHED VALUE              | CONDITION / NOTE |
|---------------------|------------------------------|------------------|
| Deflection Angle    | 50 deg                       | Approximate      |
| Screen Construction | Aluminized/metal-backed text | —                |



SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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

| CHARACTERISTICS     |                    |                  |
|---------------------|--------------------|------------------|
| PARAMETER           | PUBLISHED VALUE    | CONDITION / NOTE |
| Heater Voltage      | 6.3 V              | —                |
| Heater Current      | 600 mA             | —                |
| Focusing Method     | Electrostatic text | —                |
| Deflection Method   | Magnetic text      | —                |
| Deflection Angle    | 50 deg             | Approximate      |
| Phosphor            | P19 text           | —                |
| Fluorescence        | Orange text        | —                |
| Persistence         | Long text          | —                |
| Screen Aluminized   | Yes text           | —                |
| Light Transmittance | 76 percent         | Approximate      |
| Phosphorescence     | Orange text        | —                |

| OTHER                              |                 |                  |
|------------------------------------|-----------------|------------------|
| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Anode Voltage              | 13200 V         | —                |
| Focus Electrode Voltage<br>Minimum | -550 V          | Grid4            |
| Focus Electrode Voltage<br>Maximum | 1100 V          | Grid4            |
| Maximum Grid2 Voltage              | 550 V           | —                |
|                                    |                 |                  |

| PARAMETER                                    | PUBLISHED VALUE | CONDITION / NOTE |
|----------------------------------------------|-----------------|------------------|
| Maximum Heater-Cathode Voltage During Warmup | <b>450 V</b>    | Duration<=15s    |
| Maximum Heater-Cathode Voltage After Warmup  | <b>200 V</b>    | —                |
| Anode Voltage                                | <b>10000 V</b>  | —                |
| Focus Voltage Minimum                        | <b>0 V</b>      | Grid4            |
| Focus Voltage Maximum                        | <b>300 V</b>    | Grid4            |
| Grid2 Voltage                                | <b>300 V</b>    | —                |
| Grid1 Cutoff Voltage Minimum                 | <b>-72 V</b>    | —                |
| Grid1 Cutoff Voltage Maximum                 | <b>-28 V</b>    | —                |
| Maximum Grid1 Circuit Resistance             | <b>1.5 Mohm</b> | —                |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
[Tube types](#)
[Full books](#)
[Blog](#)
[Feedback & corrections](#)

© 2026 Tube Tinker