

ELECTRONIC TUBE REFERENCE

MW62

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
CATHODERAY

Projection television picture tube with a metal-backed screen, designed to generate a bright image for optical enlargement onto a larger viewing surface.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                                         |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION1 Cathode Ray                                                                                                                                    |         |
| MAXIMUM PLATE VOLTAGE                                                                                                                                   | 25000 V |
| Television projection cathode-ray tube with magnetic focusing and deflection. The source explicitly requires X-ray shielding equivalent to 0.5 mm lead. |         |

Projection television picture tube with metal-backed screen.



## SOURCE OPERATING CONDITIONS

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# 1951 Mullard Valve and Service Manual

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

## 1951 MULLARD VALVE AND SERVICE MANUAL

## Section 1 · Cathode Ray

| CHARACTERISTIC          |                      |                   |
|-------------------------|----------------------|-------------------|
| PARAMETER               | PUBLISHED VALUE      | CONDITION / NOTE  |
| HeaterOrFilamentVoltage | 6.3 V                | —                 |
| HeaterOrFilamentCurrent | 300 mA               | —                 |
| DeflectionMethod        | Magnetic             | —                 |
| Heater Voltage          | 6.3 V                | —                 |
| Heater Current          | 300 mA               | —                 |
| Application             | ProjectionTelevision | MetalBackedScreen |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1957 Philips Receiving and Amplifying Tubes

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

## 1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

## Section 1 · Cathode Ray

| CHARACTERISTICS |                 |                  |
|-----------------|-----------------|------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage  | 6.3 V           | —                |
| Heater Current  | 300 mA          | —                |

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Philips Electron Tubes Handbook V2

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

## 1963 PHILIPS ELECTRON TUBES HANDBOOK V2

## Section 1 · Cathode Ray

| CAPACITANCE                        |                 |                  |
|------------------------------------|-----------------|------------------|
| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-1 capacitance                 | 6.3 pF          | —                |
| Grid capacitance                   | 6.3 pF          | —                |
| Anode-to-outer-coating capacitance | 450 pF          | —                |

| OTHER                                    |                 |                    |
|------------------------------------------|-----------------|--------------------|
| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE   |
| Screen color                             | White           | —                  |
| Color temperature                        | 6500 K          | —                  |
| Useful diameter                          | 55— mm          | Minimum            |
| Deflection angle                         | —67.5 deg       | —                  |
| Anode voltage                            | 25000 V         | —                  |
| Maximum anode voltage                    | 25000 V         | —                  |
| Maximum grid-1 bias magnitude            | 200 V           | —                  |
| Maximum heater-cathode voltage           | 125 V           | —                  |
| Required X-ray shielding lead equivalent | 0.5 mm          | ObserverProtection |

| CHARACTERISTIC                  |                 |                   |
|---------------------------------|-----------------|-------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE  |
| Focusing ampere-turns           | 920 A-turns     | AnodeVoltage=25kV |
| Grid-1 cutoff-voltage magnitude | 40–90 V         | —                 |

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1999 Philips E-Z

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

1999 PHILIPS E-Z

## Section 1 · Cathode Ray

| CHARACTERISTIC |                 |                                                           |
|----------------|-----------------|-----------------------------------------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE                                          |
| Heater voltage | 9.5 V           | heater voltage must not exceed 9.5 V when the supp-       |
| Heater voltage | 9.5 V           | wird, darf die Heizspannung beim Einschalten 9,5 V        |
| Heater voltage | 9.5 V           | heater voltage must not exceed 9.5 V when the supply is   |
| Heater voltage | 9.5 V           | darf die Heizspannung beim Einschalten 9,5 V nicht {iber- |
| Deflection     | 5               | 5) The distance from deflection centre to reference line  |
| Focusing       | 9201 kV         | focusing at Va = 25 kV 9201)                              |
| Focusing       | 27.5 mm         | the focusing coil 27.5 mm                                 |
| Focusing       | -3              | ary that the focusing coil can be tilted over 2.5-3°      |
| Deflection     | 3 cm            | Deflection N = .3 xPxHx ol cm, where                      |
| Deflection     | 1               | from the deflection centre +to the reference 1line        |
| Focusing       | 1 a             | casing of the focusing coil 1is of such a thick-~         |
| Focusing       | 27.5 mm         | der Fokussierungsspule 27,5 mm                            |
| Focusing       | 3               | Fokussierungsspule nach allen Seiten iiber 2,5 - 3°       |

| CAPACITANCE |                 |                            |
|-------------|-----------------|----------------------------|
| PARAMETER   | PUBLISHED VALUE | CONDITION / NOTE           |
| Capacitance | 6.3 pF          | Capacitzneces Ce1 = 6,3 pF |
| Capacitance | 6.3 pF          | Capacitances Cgy = 6,3 pF  |

## TUBE TINKER

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and their source documents.

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