

ELECTRONIC TUBE REFERENCE

ZM1172

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
NIXIE

Long-life cold-cathode ten-digit side-view numerical indicator without a contrast filter. Manufacturer documentation specifies its glow-discharge ignition and operating behavior and display geometry for direct decimal indication.

GENERAL CHARACTERISTICS

|                     |                        |                      |               |
|---------------------|------------------------|----------------------|---------------|
| BASE DESIGNATION    | —                      | BASE PINS            | 19            |
| NOMINAL HEATER      | — / —                  | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect; cold cathode | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes      | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                          |       |
|--------------------------------------------------------------------------------------------------------------------------|-------|
| SECTION1 Nixie                                                                                                           |       |
| MAXIMUM CATHODE CURRENT                                                                                                  | 12 mA |
| STARTING VOLTAGE                                                                                                         | 170 V |
| Cold-cathode discharge/display section; explicit published limits and operating data are retained as section parameters. |       |

Long-life cold-cathode ten-digit side-view Nixie indicator without contrast filter. The datasheet specifies cold-cathode ignition/operating behavior and display geometry for numerical indication.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1969 Nixie Mullard

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

## 1969 NIXIE MULLARD

## Section 1 · Nixie

| OTHER                        |                 |                                   |
|------------------------------|-----------------|-----------------------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE                  |
| Numeral/Character Height     | 15.5 mm         | Published mechanical/display data |
| Maximum Peak Cathode Current | 12 mA           | Published peak limit              |

| CHARACTERISTIC           |                 |                                                         |
|--------------------------|-----------------|---------------------------------------------------------|
| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE                                        |
| Supply Voltage           | 170 V           | Published operating data                                |
| Minimum Ignition Voltage | 170 V           | Minimum anode-to-cathode voltage necessary for ignition |
| Cathode Current          | 2.5 mA          | Published average/normal value                          |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 196X Nixie Random Datasheets

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

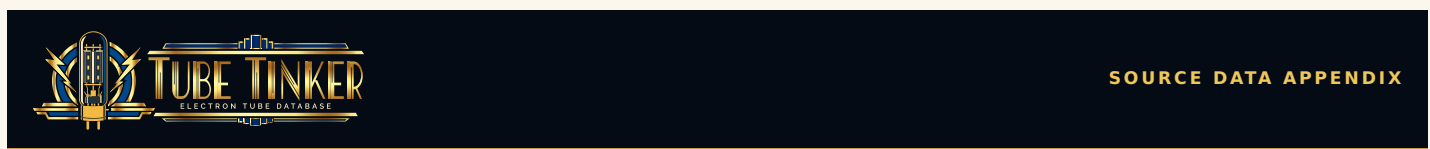
## 196X NIXIE RANDOM DATASHEETS

## Section 1 · Nixie

| OTHER                                     |                 |                  |
|-------------------------------------------|-----------------|------------------|
| PARAMETER                                 | PUBLISHED VALUE | CONDITION / NOTE |
| Numeral height                            | 15.5 mm         | —                |
| Supply voltage minimum                    | 170 V           | —                |
| Distance between mounting centres minimum | 19 mm           | —                |
|                                           |                 |                  |

| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE              |
|--------------------------------|-----------------|-------------------------------|
| Display orientation tolerance  | 3 deg           | Mounted vertically, base down |
| Maximum dip-solder temperature | 240 °C          | At least 5 mm from seals      |
| Maximum dip-solder duration    | 10 s            | At 240 °C                     |

| CHARACTERISTICS |                 |                  |
|-----------------|-----------------|------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE |
| Numerals        | 1234567890      | —                |
| Cathode current | 2.5 mA          | Recommended      |



#### SOURCE OPERATING CONDITIONS

# 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 · Nixie

| CHARACTERISTIC  |                 |                          |
|-----------------|-----------------|--------------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE         |
| Numeral height  | 15.5 mm         | Numeral height 15.5 mm   |
| Cathode current | 2.5 mA          | Cathode current I 2.5 mA |

| OTHER                                       |                 |                                             |
|---------------------------------------------|-----------------|---------------------------------------------|
| PARAMETER                                   | PUBLISHED VALUE | CONDITION / NOTE                            |
| Supply voltage                              | 170 V           | Supply voltage V <sub>ba</sub> min. 170 V   |
| temperature of 240°C for a maximum of 10 s. | 10 °C           | temperature of 240°C for a maximum of 10 s. |

## TUBE TINKER

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

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

