



## ELECTRONIC TUBE REFERENCE

**6370**

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**COUNTERSELECTORSWITCH**

Decade counting display tube with heated cathode and fluorescent readout. Internal counting and selection stages provide direct visible decimal indication.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | Duodecal          | BASE PINS            | 12            |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

**SECTION 1** CounterSelectorSwitch*No fixed ratings recorded.**Beam-deflecting decade counting/indicating section.*

Valvo E1T/6370 is a decade counting tube intended for electronic counting with a visible numerical indication. It uses an indirectly heated cathode, has a 6.3 V/0.3 A heater, and is specified for operation to about 30,000 impulses per second in the recommended circuit.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Amperex Condensed

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

## 1963 AMPEREX CONDENSED

## Section 1 · CounterSelectorSwitch

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Heater voltage | 6.3 V           | Published rating |
| Heater current | 300 mA          | Published rating |

| OTHER                 |                 |                  |
|-----------------------|-----------------|------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum counting rate | 100 kHz         | CountingTube     |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1965 Nixie Valvo

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

## 1965 NIXIE VALVO

## Section 1 · CounterSelectorSwitch

| CHARACTERISTICS |                    |                              |
|-----------------|--------------------|------------------------------|
| PARAMETER       | PUBLISHED VALUE    | CONDITION / NOTE             |
| Heater voltage  | 6.3 V              | AC or DC heater              |
| Heater current  | 300 mA             | Indirect heater              |
| Guaranteed life | 10000 h            | Average over 100 tubes       |
| Failure factor  | 1.5 permille/1000h | Published reliability factor |
| Capacitance Ca1 | 4.9 pF             | Published capacitance        |
| Capacitance Ca2 | 10.5 pF            | Published capacitance        |
| Capacitance Cg1 | 6.8 pF             | Published capacitance        |

| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE      |
|-----------------|-----------------|-----------------------|
| Capacitance Cg4 | <b>7.7 pF</b>   | Published capacitance |
| Capacitance CD  | <b>3.5 pF</b>   | Published capacitance |
| Capacitance CD' | <b>3.8 pF</b>   | Published capacitance |

| OTHER                            |                         |                                        |
|----------------------------------|-------------------------|----------------------------------------|
| PARAMETER                        | PUBLISHED VALUE         | CONDITION / NOTE                       |
| External magnetic field          | <b>—2 gauss</b>         | Any direction                          |
| Recommended ambient illumination | <b>40–400 lux</b>       | For reliable reading                   |
| Anode supply voltage             | <b>300 V</b>            | Recommended counting circuit           |
| Anode current                    | <b>0.95 mA</b>          | Recommended counting circuit           |
| Maximum counting frequency       | <b>30000 impulses/s</b> | Recommended circuit                    |
| Input pulse amplitude            | <b>13.6 V</b>           | Positive input pulse; tolerance +/-15% |
| Input pulse leading-edge slope   | <b>20000000— V/s</b>    | Greater than published minimum         |
| Input pulse trailing-edge slope  | <b>—1200000 V/s</b>     | Less than published maximum            |