



## ELECTRONIC TUBE REFERENCE

## CD64

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**NIXIE**

Cold-cathode numerical or character indicator cross-referenced to RFT Z5700M, with comparison data for striking and maintaining voltage.

## GENERAL CHARACTERISTICS

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

## SECTION RATINGS

|                                                                                                                                                         |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>SECTION 1</b> Nixie                                                                                                                                  |       |
| MAXIMUM CATHODE CURRENT                                                                                                                                 | 2.5 A |
| STARTING VOLTAGE                                                                                                                                        | 150 V |
| MAINTAINING VOLTAGE                                                                                                                                     | 140 V |
| <i>Cold-cathode display section; promoted starting/maintaining voltages are anode striking/burning values published for comparable RFT type Z5700M.</i> |       |

CD64 is a cold-cathode numeric or character indicator tube listed in the supplied German comparison catalog as comparable to RFT type Z5700M. The catalog provides electrical and mechanical data for that RFT type, including anode striking, maintaining, and operating limits. The source cautions that comparable types are not necessarily electrically identical, so the mapped RFT values are retained as comparison data rather than asserted as exact original-manufacturer ratings.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1971 Nixie RFT

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

1971 NIXIE RFT

## Section 1 · Nixie

| OTHER                            |                 |                                                                        |
|----------------------------------|-----------------|------------------------------------------------------------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE                                                       |
| Comparable RFT Type              | <b>Z5700M</b>   | Catalog cross-reference; comparable types are not guaranteed identical |
| Minimum Operating Supply Voltage | <b>170 V</b>    | Published for comparable RFT type Z5700M                               |
| Cathode Current Minimum          | <b>1.5 mA</b>   | Published for comparable RFT type Z5700M                               |
| Cathode Current Maximum          | <b>2.5 mA</b>   | Published for comparable RFT type Z5700M                               |
| Peak Cathode Current             | <b>12 mA</b>    | Published for comparable RFT type Z5700M                               |
| Ambient Temperature Minimum      | <b>-50 °C</b>   | Published for comparable RFT type Z5700M                               |
| Ambient Temperature Maximum      | <b>70 °C</b>    | Published for comparable RFT type Z5700M                               |
| Maximum Bulb Height              | <b>47.6 mm</b>  | Published for comparable RFT type Z5700M                               |
| Maximum Bulb Diameter            | <b>19 mm</b>    | Published for comparable RFT type Z5700M                               |

| CHARACTERISTIC            |                 |                                          |
|---------------------------|-----------------|------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                         |
| Anode Striking Voltage    | <b>150 V</b>    | Published for comparable RFT type Z5700M |
| Anode Maintaining Voltage | <b>140 V</b>    | Published for comparable RFT type Z5700M |
| Anode Extinction Voltage  | <b>120 V</b>    | Published for comparable RFT type Z5700M |

## TUBE TINKER

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