ELECTRONIC TUBE REFERENCE

# NL940S

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**NIXIE**

Long-life NL940-family cold-cathode Nixie readout tube displaying numerals 0–9 with decimal-point capability.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | – | **BASE PINS** | – |
| **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** | 20 mA |

*Cold-cathode glow display section; peak cathode-current limit promoted.*

NL940S is a long-life neon-filled cold-cathode display/readout tube displaying numerals 0–9 with decimal-point capability. The supplied sheet specifies a 170 V maximum ionization voltage, 170 V minimum supply, and published cathode-current limits.

SOURCE OPERATING CONDITIONS

# 1968 Nixie National Electronics

SOURCE PDF

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

1968 NIXIE NATIONAL ELECTRONICS

## Section 1 · Nixie

### OTHER

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Ionization Voltage Maximum | **170 V** | Published technical information |
| Peak Cathode Current Maximum | **20 mA** | Published technical information |
| Average Cathode Current Maximum | **5 mA** | Published technical information |
| Ambient Temperature Minimum | **-20 degC** | Normal life range |
| Ambient Temperature Maximum | **55 degC** | Normal life range |
| Decimal Point Current Maximum | **0.5 mA** | Published technical information |
| Recommended Supply Voltage | **170 V** | Published technical information |
| Recommended Supply Voltage | **250 V** | Published technical information |
| Recommended Supply Voltage | **300 V** | Published technical information |

### CHARACTERISTIC

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Supply Voltage Minimum | **170 V** | Published technical information |
| Average Cathode Current Minimum | **2.3 mA** | Published technical information |
| Prebias Voltage Minimum | **60 V** | Off cathodes |
| Prebias Voltage Maximum | **120 V** | Off cathodes |
| Dynamic Life | **200000 h** | Published dynamic life |
| Decimal Point Current Minimum | **0.1 mA** | Published technical information |

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