



ELECTRONIC TUBE REFERENCE

NL940

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Long-life neon-filled cold-cathode Nixie numerical indicator displaying digits 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

SECTION 1 Nixie	
MAXIMUM CATHODE CURRENT	20 mA
<i>Cold-cathode glow display section; peak cathode-current limit promoted.</i>	

NL940 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

[SOURCE PDF](#)

1968 Nixie National Electronics

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

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

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