ELECTRONIC TUBE REFERENCE

NL903

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Long-life neon-filled cold-cathode symbol readout tube displaying plus and minus signs. Intended for polarity indication rather than ordinary numerical display, it has a 170 V maximum ionization voltage and minimum supply specified by National Electronics.

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	3.5 mA

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

NL903 is a long-life neon-filled cold-cathode display/readout tube displaying + and − symbols. 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	**3.5 mA**	Published technical information
Average Cathode Current Maximum	**3 mA**	Published technical information
Ambient Temperature Minimum	**-20 degC**	Normal life range
Ambient Temperature Maximum	**55 degC**	Normal life range
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	**1.5 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