



ELECTRONIC TUBE REFERENCE

BD310

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Gas-filled cold-cathode bi-quinary Nixie indicator with ten cathodes and separate odd/even anodes for coded counter readout.

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

No fixed ratings recorded.

Gas-filled cold-cathode bi-quinary Nixie indicator with ten cathodes, separate odd/even anodes, and a shield electrode for binary-coded-decimal or bi-quinary counter readout.

BD310 is listed in the shared Burroughs Nixie numerical-readout catalog. The source establishes the gas-filled cold-cathode Nixie display principle, but the model-specific electrical cross-reference is not unambiguous enough to assign exact table values without guessing.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Nixie Burroughs

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

1961 NIXIE BURROUGHS

Section 1 · Nixie

DESCRIPTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display Principle	Glow discharge	Gas-filled cold-cathode readout principle



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Burroughs Nixie

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

196X BURROUGHS NIXIE

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Off cathode voltage	50–75 V	Off cathodes
Off anode voltage	75 V	Must be less than
Shield voltage	75 V	Must be less than
Anode supply voltage	150 V	Typical circuit
Anode series resistor	20 k0hm	At 150 V anode supply
Anode series resistor	30 k0hm	At 175 V anode supply
Anode series resistor	39 k0hm	At 200 V anode supply
Off anode voltage	55 V	Typical circuit
Off cathode voltage	65 V	Typical circuit
Shield voltage	65 V	Typical circuit
Cathode current	1.5–3.5 mA	Typical circuit

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Number of cathodes	10 count	Digits 0 through 9
Number of anodes	2 count	Odd and even cathode groups

TUBE TINKER

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and their source documents.

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