ELECTRONIC TUBE REFERENCE

B7031

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode Nixie numerical indicator designed to display decimal digits by selective glow discharge of shaped cathodes.

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	16 mA
MINIMUM REGULATOR CURRENT	10 mA
MAXIMUM REGULATOR CURRENT	16 mA
STARTING VOLTAGE	300 V

Gas-filled cold-cathode Nixie numerical-readout tube, Jumbo side-viewing size.

B7031 is a gas-filled cold-cathode Nixie numerical/readout device. The shared catalog identifies it with the B7031 electrical family, using a maximum ionization voltage of 300 V and a recommended minimum supply of 300 V.

SOURCE OPERATING CONDITIONS

1961 Nixie Burroughs

SOURCE PDF

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

1961 NIXIE BURROUGHS

Section 1 · Nixie

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Ionization Voltage Maximum	**300 V**	—
Supply Voltage Minimum	**300 V**	Catalog minimum supply voltage
Cathode Current Peak	**16 mA**	—
Cathode Current Average	**13 mA**	—
Individual Cathode Wattage Maximum	**2 W**	—
Test Supply Voltage	**300 V**	—
Test Series Resistor	**12 kOhm**	—
Display Size Class	**Jumbo side-viewing**	—
Numeral Height	**2 in**	—
Recommended Socket	**SK117**	—
Recommended Supply Voltage	**300 V**	Series resistor 12 kOhm
Recommended Series Resistor	**12 kOhm**	Supply voltage 300 V

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Cathode Current Minimum	**10 mA**	—
Cathode Current Maximum	**16 mA**	—

196X Burroughs Nixie

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196X BURROUGHS NIXIE

Section 1 · Nixie

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Ionization voltage	**300 V**	Absolute rating; maximum
Minimum supply voltage	**300 V**	Absolute rating; minimum recommended supply
Cathode current	**16 mA**	Peak
Cathode current	**13 mA**	Average
Individual cathode dissipation	**2 W**	Maximum
Anode supply voltage	**300 V**	BasicCircuit test condition
Anode series resistor	**12 kOhm**	BasicCircuit test condition
Cathode current	**10–16 mA**	BasicCircuit test condition
Numeral height	**2 in**	Jumbo side-viewing
Recommended anode series resistor	**12 kOhm**	Anode supply 300 V

Tube Tinker

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

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