



ELECTRONIC TUBE REFERENCE

HB105

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Gas-filled cold-cathode Nixie numerical/readout tube for direct digit indication in electronic instruments and counting equipment.

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	0.8 mA
MINIMUM REGULATOR CURRENT	0.2 mA
MAXIMUM REGULATOR CURRENT	0.35 mA
STARTING VOLTAGE	150 V
Gas-filled cold-cathode 10-position Nixie readout indicator with common anode; ten glow positions are visible through numerical perforations 0 through 9.	

HB105 is a gas-filled cold-cathode Nixie numerical/readout device. The shared catalog identifies it with the HB105 electrical family, using a maximum ionization voltage of 150 V and a recommended minimum supply of 150 V.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization Voltage Maximum	150 V	—
Supply Voltage Minimum	150 V	Catalog minimum supply voltage
Cathode Current Peak	0.8 mA	—
Cathode Current Average	0.25 mA	—
Individual Cathode Wattage Maximum	0.08 W	—
Test Supply Voltage	150 V	—
Test Series Resistor	82 kOhm	—
Display Size Class	Standard 10-position readout	—
Recommended Socket	HSK111	—
Recommended Supply Voltage	150 V	Series resistor 82 kOhm
Recommended Series Resistor	82 kOhm	Supply voltage 150 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Current Minimum	0.2 mA	—
Cathode Current Maximum	0.35 mA	—

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
Ionization voltage	150— V	Minimum
Cathode current	0.25 mA	Average
Cathode current	0.5 mA	Peak
Individual cathode dissipation	0.08 W	Maximum
Anode supply voltage	150 V	BasicCircuit test condition
Anode series resistor	82 k0hm	BasicCircuit test condition
Cathode current	0.2–0.35 mA	BasicCircuit test condition
Number of readout positions	10 count	Numerals 0 through 9
Position spacing	36 deg	Ten glow positions

TUBE TINKER

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

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