



ELECTRONIC TUBE REFERENCE

IN7B

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Russian cold-cathode glow-discharge numeric/symbol indicator intended for direct visual display. Manufacturer data specify ignition voltage up to 170 V and maintaining voltage up to 160 V, with a published minimum operating life of 400 hours.

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 REGULATOR CURRENT	2.5 A
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	160 V
Single cold-cathode glow-discharge indicator section; Nixie-specific operating data are also retained as parameters.	

The IN7B is a Russian cold-cathode glow-discharge Nixie numeric/symbol display intended for visual indication. Ignition voltage up to 170 v, maintaining/anode-cathode voltage up to 160 v, published life at least 400 h. The supplied Russian datasheet was translated for this record.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Russian 2

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

196X NIXIE RUSSIAN 2

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition delay time	—1 s	Published datasheet value
DC operating current	—3.5 mA	Published datasheet value
Pulsed operating current average	—4 mA	Published datasheet value
Ambient operating temperature minimum	-60 degC	Published datasheet value
Ambient operating temperature maximum	85 degC	Published datasheet value
Supply voltage	200— V	Minimum stated source/supply voltage
Ignition voltage	—170 V	Published datasheet value
Maintaining voltage / anode-cathode drop	—160 V	Published datasheet value
Indication current	—2.5 mA	Published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service life	400— h	Minimum

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