



ELECTRONIC TUBE REFERENCE

A103

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode glow-discharge Dekatron for counting, switching, and counting/calculating equipment. Operation transfers a visible violet-blue discharge between cathodes, providing both an electronic counting or switching function and a directly visible indication of the discharge position.

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

No fixed ratings recorded.

Electrical values not fitting canonical promoted fields are preserved in TUBE_SECTION_PARAMETER.

Russian cold-cathode glow-discharge Dekatron intended for counting, switching, or counting-and-calculating equipment. It transfers a visible discharge among cathodes; violet-blue glow is used for indication.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Russian 1

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

196X NIXIE RUSSIAN 1

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Scale factor	10	Published datasheet value
Anode supply voltage	450— V	Published datasheet value
Discharge starting voltage, illuminated	—440 V	Published datasheet value
Discharge maintaining voltage	225–260 V	Published datasheet value
Subcathode bias voltage	35–44 V	Published datasheet value
Reset pulse amplitude	130–170 V	Published datasheet value
Output pulse amplitude	—15 V	Published datasheet value
Operating current	0.7–0.85 mA	Published datasheet value
Counting rate	0.01–50000 Hz	Published datasheet value
Control pulse amplitude	130–150 V	Published datasheet value
Control pulse duration	7— us	Published datasheet value
Service life	500— h	Published datasheet value

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