



ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

GR1

1 SECTION

CONSTRUCTION

NIXIE

Nixie electronic tube

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

No fixed ratings recorded.

Cold-cathode display section. The source table publishes operating-point and mechanical data rather than conventional vacuum-tube gm/rp/mu ratings.

GR1 is a cold-cathode Nixie display tube listed in a Japanese numeric/symbol display-tube table. It displays 0–9. The table gives a maximum overall length of 44.5 mm, a maximum display diameter of 32 mm, and maximum power consumption of 0.5 W. Approximate visible distance is 13 m.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1969 Nixie Zennippon Shinkukan

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

1969 NIXIE ZENNIPPON SHINKUKAN

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Displayed symbols	0–9	—
Visible distance	13 m	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Connection diagram number	2	See source basing/connection diagram
Maximum overall length	44.5 mm	—
Maximum display diameter	32 mm	—
Maximum power consumption	0.5 W	—
Anode supply DC voltage	170 V	Operating point at 170 V
Average anode current	2.5 mA	AnodeSupplyVoltage=170V; approximate
Series resistor Rp	15 k0hm	AnodeSupplyVoltage=170V
Anode supply DC voltage	200 V	Operating point at 200 V
Average anode current	2.5 mA	AnodeSupplyVoltage=200V; approximate
Series resistor Rp	28 k0hm	AnodeSupplyVoltage=200V
Anode supply DC voltage	250 V	Operating point at 250 V
Average anode current	2.5 mA	AnodeSupplyVoltage=250V; approximate
Series resistor Rp	50 k0hm	AnodeSupplyVoltage=250V
Anode supply DC voltage	300 V	Operating point at 300 V
Average anode current	2.5 mA	AnodeSupplyVoltage=300V; approximate
Series resistor Rp	70 k0hm	AnodeSupplyVoltage=300V

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker