ELECTRONIC TUBE REFERENCE

ZM1330K

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode side-view numerical display showing digits 0–9 with left and right decimal points and 13.1 mm characters. The K variant retains the same fundamental direct glow-discharge display function.

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	
MINIMUM REGULATOR CURRENT	2.5 A
MAXIMUM REGULATOR CURRENT	4 A
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	145 V

Single cold-cathode display section. Ignition, sustaining/extinction voltages, cathode-current limits, and display/mechanical data are retained below.

The ZM1330K is a gas-filled cold-cathode Nixie display tube. The catalog shows 0 to 9 with left and right decimal points with a side viewing arrangement and a character height of 13.1 mm. Its ignition voltage is 170 V, extinction voltage is about 115 V, and normal glow voltage is about 145 V. The source is French-language material translated to English for this record.

SOURCE OPERATING CONDITIONS

1973 Nixie Siemens

SOURCE PDF

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

1973 NIXIE SIEMENS

Section 1 · Nixie

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	**170 V**	Maximum/typical threshold shown in source table
Operating glow voltage	**145 V**	Approximate service voltage
Extinction voltage	**115 V**	Source table value
Nominal cathode current	**3 mA**	Main symbol/digit
Nominal decimal-point cathode current	**0.2 mA**	Decimal point

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum supply voltage	**170 V**	Absolute limit table
Cathode current	**2.5–4 mA**	Main symbol/digit continuous range
Decimal-point cathode current	**0.1–0.5 mA**	Decimal point continuous range
Maximum peak cathode current	**6 mA**	Main symbol/digit
Maximum peak decimal-point cathode current	**0.8 mA**	Decimal point
Envelope temperature minimum	**-20 degC**	Operating envelope temperature range
Envelope temperature maximum	**70 degC**	Operating envelope temperature range
Display characters	**0 to 9 with left and right decimal points**	Translated from French source
Display orientation	**side**	Viewing orientation
Character height	**13.1 mm**	Display geometry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum tube height	**30.5 mm**	Mechanical dimension
Maximum tube width/diameter	**13 mm**	Mechanical dimension as printed
Supply mode	**DC supply**	Catalog column heading

Tube Tinker

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