

ELECTRONIC TUBE REFERENCE

ZM1290

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode side-view numerical display showing digits 0-9 with a right decimal point and 10 mm characters. Siemens data specify approximately 170 V ignition and 140 V normal glow voltage.

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	1 A
MAXIMUM REGULATOR CURRENT	2 A
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	140 V
Single cold-cathode display section. Ignition, sustaining/extinction voltages, cathode-current limits, and display/mechanical data are retained below.	

The ZM1290 is a gas-filled cold-cathode Nixie display tube. The catalog shows 0 to 9 with right decimal point with a side viewing arrangement and a character height of 10.0 mm. Its ignition voltage is 170 V, extinction voltage is about 115 V, and normal glow voltage is about 140 V. The source is French-language material translated to English for this record.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1973 Nixie Siemens

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	140 V	Approximate service voltage
Extinction voltage	115 V	Source table value
Nominal cathode current	1.5 mA	Main symbol/digit
Nominal decimal-point cathode current	0.3 mA	Decimal point
Mean pulsed cathode current	0.4 mA	Main digit
Mean pulsed decimal-point current	0.09 mA	Decimal point

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum supply voltage	170 V	Absolute limit table
Cathode current	1–2 mA	Main symbol/digit continuous range
Decimal-point cathode current	0.15–0.5 mA	Decimal point continuous range
Maximum peak cathode current	10 mA	Main symbol/digit
Maximum peak decimal-point cathode current	3 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 right decimal point	Translated from French source

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display orientation	side	Viewing orientation
Character height	10 mm	Display geometry
Maximum tube height	31 mm	Mechanical dimension
Maximum tube width/diameter	10.5 mm	Mechanical dimension as printed

TUBE TINKER

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