

ELECTRONIC TUBE REFERENCE

ZM1212

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode ten-digit side-view numerical indicator with decimal point and no color-filter coating. Its shaped cathodes provide direct glow-discharge decimal readout, with manufacturer documentation covering ignition, operating behavior, and display geometry.

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	
MAXIMUM CATHODE CURRENT	15 mA
STARTING VOLTAGE	170 V
MAINTAINING VOLTAGE	140 V
Cold-cathode Nixie display section; conventional plate resistance, transconductance and amplification factor are not applicable.	

Cold-cathode ten-digit side-view Nixie indicator with decimal point, without color-filter coating. The datasheet specifies cold-cathode ignition/operating behavior and display geometry for numerical indication.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Random Datasheets

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

196X NIXIE RANDOM DATASHEETS

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numerals	0-9	—
Operating voltage typical	140 V	Numerals 0-9 at 2 mA; decimal point at 0.4 mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numeral height	15.5 mm	—
Readout	Side	—
Breakdown voltage maximum	170 V	—
Numeral cathode current minimum	1.5 mA	—
Decimal-point cathode current range	0.3–0.6 mA	—
Supply voltage minimum	170 V	—
Cathode bias voltage range	40–120 V	—
Cathode pulse current maximum	15 mA	—
Bulb temperature range	-50–70 °C	—
Weight approximate	8 g	—

TUBE TINKER

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