

ELECTRONIC TUBE REFERENCE

ZM1010

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Long-life side-viewing cold-cathode numerical/character indicator. Manufacturer documentation supplies glow-discharge display ratings, operating conditions, and mechanical information for direct visual readout in electronic instrumentation and related equipment.

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 PLATE VOLTAGE	170 V
MAXIMUM CATHODE CURRENT	2.5 mA
Cold-cathode glow-display section; published ratings and operating data retained as parameters.	

ZM1010 is a long-life side-viewing numerical/character indicator, classified as Nixie for this batch. The supplied datasheet provides cold-cathode display ratings, operating conditions, and mechanical/display information.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Character/Numeral Height	14 mm	Published datasheet value
Cathode/Anode Current Maximum	2.5 mA	Published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply Voltage Minimum	170 V	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Nixie

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage Vba min. 170 V	170 S	Supply voltage Vba min. 170 V
Anode current Ia 2, 5 mA	5 A	Anode current Ia 2, 5 mA
Anode current for coverage a min. 1, 5 mA	5 A	Anode current for coverage a min. 1, 5 mA
Cathode selecting voltage V~ see page 4	4 a	Cathode selecting voltage V~ see page 4

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Extinction voltage min. 118 V	118 v	Extinction voltage min. 118 V
digit to the others every 1000 h or less 100000 h	100000 s	digit to the others every 1000 h or less 100000 h
Anode voltage necessary for ignition Va min. 170 V	170 A	Anode voltage necessary for ignition Va min. 170 V
Ambient temperature tamb min. -50 °C	-50 A	Ambient temperature tamb min. -50 °C
Bulb temperatures below 10 ° C result in a reduced life expectancy and changes in	10 a	Bulb temperatures below 10 ° C result in a reduced life expectancy and changes in

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The pins may be dip-soldered ata solder temperature of max. 240 ° C for maximum 10 s	10 s	The pins may be dip-soldered ata solder temperature of max. 240 ° C for maximum 10 s
Ignition voltage Vign max. 170 V	170 v	Ignition voltage Vign max. 170 V
Maintaining voltage Vm see page 4	4 Ma	Maintaining voltage Vm see page 4

TUBE TINKER

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