

ELECTRONIC TUBE REFERENCE

ZM1170

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Long-life cold-cathode ten-digit side-view numerical indicator with red contrast filter. Its shaped glow-discharge cathodes provide direct decimal readout, with manufacturer documentation specifying ignition, operating behavior, and display geometry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	19
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	12 mA
STARTING VOLTAGE	170 V
Cold-cathode discharge/display section; explicit published limits and operating data are retained as section parameters.	

Long-life cold-cathode ten-digit side-view Nixie indicator with red contrast filter. The datasheet specifies cold-cathode ignition/operating behavior and display geometry for numerical indication.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1969 Nixie Mullard

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

1969 NIXIE MULLARD

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numeral/Character Height	15.5 mm	Published mechanical/display data
Maximum Peak Cathode Current	12 mA	Published peak limit

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply Voltage	170 V	Published operating data
Minimum Ignition Voltage	170 V	Minimum anode-to-cathode voltage necessary for ignition
Cathode Current	2.5 mA	Published average/normal value



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.

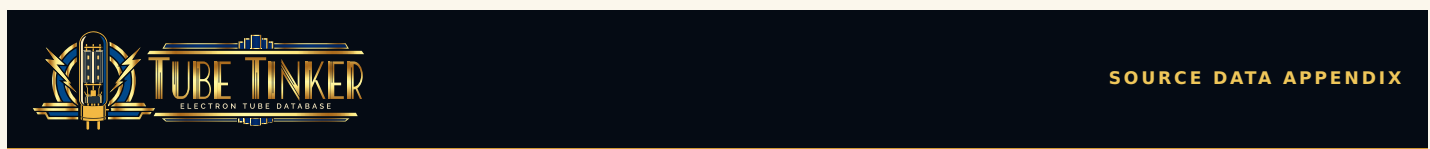
196X NIXIE RANDOM DATASHEETS

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numeral height	15.5 mm	—
Supply voltage minimum	170 V	—
Distance between mounting centres minimum	19 mm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display orientation tolerance	3 deg	Mounted vertically, base down
Maximum dip-solder temperature	240 °C	At least 5 mm from seals
Maximum dip-solder duration	10 s	At 240 °C

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numerals	1234567890	—
Cathode current	2.5 mA	Recommended



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numeral height	15.5 mm	Numeral height 15.5 mm
Cathode current	2.5 mA	Cathode current I 2.5 mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	170 V	Supply voltage V _{ba} min. 170 V
temperature of 240°C for a maximum of 10 s.	10 °C	temperature of 240°C for a maximum of 10 s.

TUBE TINKER

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