



ELECTRONIC TUBE REFERENCE

Z504S

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode bidirectional ten-output counter/selector providing decade stepping and multiple electrical outputs.

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

SECTION 1 Nixie	
MAXIMUM PLATE VOLTAGE	475 V
Cold-cathode discharge/display section; explicit published limits and operating data are retained as section parameters.	

Z504S is a cold-cathode bi-directional 10-output counter/selector, classified as Nixie for this batch. The supplied datasheet was reviewed for operating conditions, ratings, and display/counting characteristics.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply Voltage	475 V	Published operating data
Maximum Counting Speed	5 kHz	Published datasheet value
Anode Supply Voltage Minimum	375 V	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Supply Voltage Maximum	1000 V	Published datasheet value



SOURCE OPERATING CONDITIONS

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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
Supply Voltage	475 V	Published datasheet value
Maximum Counting Speed	5 kHz	Published datasheet value
Anode Supply Voltage Maximum	1000 V	Published datasheet value

Characteristic		
Parameter	Published Value	Condition / Note
Anode Supply Voltage Minimum	375 V	Published datasheet value
Maintaining Voltage Minimum	185 V	Published datasheet value
Maintaining Voltage Maximum	205 V	Published datasheet value



SOURCE DATA APPENDIX

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

Other		
Parameter	Published Value	Condition / Note
Maximum counting speed	5 kHz	—
Supply voltage	475 V	—
Recommended cathode current	340 μA	—
Maintaining voltage minimum	185 V	—
Maintaining voltage maximum	203 V	—

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