



ELECTRONIC TUBE REFERENCE

Z521M

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Cold-cathode Nixie indicator displaying special front-viewed symbols approximately 15.5 mm high rather than ordinary decimal digits.

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	170 V
MAXIMUM CATHODE CURRENT	2.5 mA
<i>Cold-cathode glow-display section; maximum cathode current promoted in amperes.</i>	

Z521M is a cold-cathode Nixie numerical/symbol indicator tube. The supplied RFT sheet gives 145 V ignition and 135 V burning voltage, a 170 V minimum operating supply, 1-2.5 mA cathode current, and 15.5 mm front-viewed symbols. Page 5 identifies Z521M as comparable to Z561M; electrical/display values are taken from the Z561M table column.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Nixie RFT

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

1971 NIXIE RFT

Section 1 · Nixie

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Ignition Voltage	145 V	Comparable type Z561M
Anode Burning Voltage	135 V	Comparable type Z561M
Anode Extinction Voltage	120 V	Comparable type Z561M

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Operating Voltage	170 V	Comparable type Z561M
Minimum Cathode Current	1 mA	Comparable type Z561M
Maximum Cathode Current	2.5 mA	Comparable type Z561M
Peak Cathode Current	10 mA	Comparable type Z561M
Minimum Ambient Temperature	-50 degC	Comparable type Z561M
Maximum Ambient Temperature	70 degC	Comparable type Z561M
Symbol Height	15.5 mm	Comparable type Z561M
Maximum Viewing Distance	10 m	Comparable type Z561M
Maximum Bulb Height	26.5 mm	Comparable type Z561M
Maximum Bulb Diameter	30.1 mm	Comparable type Z561M

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