



ELECTRONIC TUBE REFERENCE

CD24

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode Nixie numerical indicator documented in Japanese specification tables with model-specific current, voltage, temperature, and viewing-angle data.

GENERAL CHARACTERISTICS

BASE DESIGNATION	13-17 TGL 68-87	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	2.5 mA
STARTING VOLTAGE	145 V
MAINTAINING VOLTAGE	135 V
Cold-cathode display section; promoted starting/maintaining voltages are anode striking/burning values published for comparable RFT type Z5600M.	

Cold-cathode Nixie numerical indicator from a shared Japanese specification table; model-specific column extracted for CD24. The table supplies ionization voltage, cathode-current range, power/current limits, temperature range, viewing angle, and recommended anode-resistor values.

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
Supply voltage minimum	170 V	DC operation
Ionization voltage maximum	170 V	DC operation
Average cathode power dissipation maximum	0.5 W	Each numerical cathode
Peak cathode current maximum	3.5 mA	Numerical cathode
Average cathode current range	1.5–3 mA	Numerical cathode
Storage ambient temperature	-65–70 °C	—
Operating ambient temperature	-10–55 °C	—
Maximum viewing angle	160 deg	Approximate
Weight	12 g	Approximate
Anode series resistor	10 kΩ	SupplyVoltage=170V
Anode series resistor	24 kΩ	SupplyVoltage=200V
Anode series resistor	47 kΩ	SupplyVoltage=250V
Anode series resistor	68 kΩ	SupplyVoltage=300V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numerical cathode current	1.5–3 mA	DC operation

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Comparable RFT Type	Z5600M	Catalog cross-reference; comparable types are not guaranteed identical
Minimum Operating Supply Voltage	170 V	Published for comparable RFT type Z5600M
Cathode Current Minimum	1 mA	Published for comparable RFT type Z5600M
Cathode Current Maximum	2.5 mA	Published for comparable RFT type Z5600M
Peak Cathode Current	10 mA	Published for comparable RFT type Z5600M
Ambient Temperature Minimum	-50 °C	Published for comparable RFT type Z5600M
Ambient Temperature Maximum	70 °C	Published for comparable RFT type Z5600M
Symbol Height	15.5 mm	Published for comparable RFT type Z5600M
Maximum Viewing Distance	10 m	Published for comparable RFT type Z5600M
Maximum Bulb Height	26.5 mm	Published for comparable RFT type Z5600M
Maximum Bulb Diameter	30.1 mm	Published for comparable RFT type Z5600M

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Striking Voltage	145 V	Published for comparable RFT type Z5600M
Anode Maintaining Voltage	135 V	Published for comparable RFT type Z5600M
Anode Extinction Voltage	120 V	Published for comparable RFT type Z5600M

TUBE TINKER

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