



ELECTRONIC TUBE REFERENCE

CD13

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode Japanese Nixie numerical indicator with model-specific operating limits for ionization voltage, cathode current, temperature, and anode resistance.

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 CATHODE CURRENT	1.5 mA
STARTING VOLTAGE	170 V
<i>Cold-cathode numerical indicator section. Starting/ionization and cathode-current data are represented directly; triode/pentode fields are not applicable.</i>	

Cold-cathode Nixie numerical indicator from a shared Japanese specification table; model-specific column extracted for CD13. 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	0.2 W	Each numerical cathode
Peak cathode current maximum	1.5 mA	Numerical cathode
Average cathode current range	0.6–1.2 mA	Numerical cathode
Storage ambient temperature	-65–70 °C	—
Operating ambient temperature	-10–55 °C	—
Maximum viewing angle	160 deg	Approximate
Weight	4 g	Approximate
Anode series resistor	33 kΩ	SupplyVoltage=170V
Anode series resistor	65 kΩ	SupplyVoltage=200V
Anode series resistor	120 kΩ	SupplyVoltage=250V
Anode series resistor	180 kΩ	SupplyVoltage=300V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numerical cathode current	0.6–1.2 mA	DC operation