

ELECTRONIC TUBE REFERENCE

CD11

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Cold-cathode numerical display tube in the supplied Nixie table; a separate Ferranti source also associates CD11 with flash-tube data, so functional identity remains conflicting.

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 PLATE VOLTAGE	500 V
MAXIMUM CATHODE CURRENT	4 mA
STARTING VOLTAGE	170 V
Promoted fields were populated only where the Ferranti sheet maps cleanly to the locked schema; additional ratings and operating values are retained in TUBE_SECTION_PARAMETER.	

Cold-cathode Nixie numerical indicator from a shared Japanese specification table; model-specific column extracted for CD11. The table supplies ionization voltage, cathode-current range, power/current limits, temperature range, viewing angle, and recommended anode-resistor values.

SOURCE OPERATING CONDITIONS

1963 Ferranti

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

1963 FERRANTI

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Discharge energy maximum	50 J	—
Operating voltage minimum	180 V	—
Operating voltage maximum	500 V	—
Minimum interval between flashes	10 s	AtMaximumDissipation
Discharge capacitor maximum	600 uF	—
Operating voltage	410 V	—
Trigger voltage minimum	2 kV	—
Trigger voltage maximum	3 kV	—
Discharge capacitor	600 uF	—
Charging resistor	3300 Ohm	—
Flash duration	0.002 s	Approximate

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	4 mA	Numerical cathode
Average cathode current range	1.5–3.5 mA	Numerical cathode
Storage ambient temperature	-65–70 °C	—
Operating ambient temperature	-10–55 °C	—
Maximum viewing angle	160 deg	Approximate
Weight	25 g	Approximate
Anode series resistor	10 kΩ	SupplyVoltage=170V
Anode series resistor	22 kΩ	SupplyVoltage=200V
Anode series resistor	42 kΩ	SupplyVoltage=250V
Anode series resistor	62 kΩ	SupplyVoltage=300V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Numerical cathode current	1.5–3.5 mA	DC operation