



ELECTRONIC TUBE REFERENCE

CD83P

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

NEC side-view pulse-operated high-brightness Nixie displaying digits 0-9 and decimal point with approximately 13 mm character height.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	14
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 CATHODE CURRENT	22 mA
<i>Cold-cathode Nixie/display-discharge section. Supply value in source is minimum anode DC supply voltage (peak anode supply for pulse-operation model).</i>	

NEC side-view cold-cathode display-discharge tube showing digits 0-9 and decimal point. It has an approximate 13 mm display height. The catalog gives a 170 V minimum anode supply and 8-22 mA peak cathode current for the main display. Termination/socket information is Wire-leaded. Pulse-operated high-brightness miniature display tube; table currents are peak cathode currents.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie NEC

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

196X NIXIE NEC

Section 1 · Nixie

DISPLAY		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display content	Digits 0-9 and decimal point	—
Viewing orientation	side	—
Display construction	side-view	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display height	13 mm	—
Overall length maximum	37 mm	—
Bulb size maximum	13 mm	—
Lead length minimum	65 mm	—
Anode supply voltage minimum	170— Vdc	Peak anode supply voltage
Peak cathode current	8–22 mA	Digits 0-9
Decimal-point peak cathode current	1.2–2.8 mA	Decimal point
Pulse operation	Yes	High-brightness pulse operation

BASE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Socket or termination	Wire-leaded	—

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