



ELECTRONIC TUBE REFERENCE

CD69

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

NEC side-view cold-cathode symbol indicator displaying plus and minus signs with approximately 14 mm character height.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	11
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	2.2 mA
<i>Cold-cathode display section. Catalog maps this designation to comparable RFT type Z510M, but that RFT type is not tabulated in the supplied electrical-data pages.</i>	

NEC side-view cold-cathode display-discharge tube showing symbols + and -. It has an approximate 14 mm display height. The catalog gives a 170 V minimum anode supply, with + at 0.5–1.7 mA and – at 1.0–2.2 mA. Termination/socket information is Wire-leaded.

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	Symbols + and -	—
Viewing orientation	side	—
Display construction	side-view	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Display height	14 mm	—
Overall length maximum	47.6 mm	—
Bulb size maximum	19 mm	—
Lead length minimum	33 mm	—
Anode supply voltage minimum	170— Vdc	Minimum DC anode supply
Plus-symbol cathode current	0.5–1.7 mA	Plus symbol
Minus-symbol cathode current	1–2.2 mA	Minus symbol

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

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	Z510M	Catalog cross-reference; comparable types are not guaranteed identical