



ELECTRONIC TUBE REFERENCE

Z8700M

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

RFT cold-cathode numerical/symbol indicator with 15.5 mm side-viewed characters. Manufacturer data specify approximately 150 V ignition, 140 V maintaining voltage, a 170 V minimum operating supply, and 3–5 mA cathode current for glow-discharge display service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9–12 TGL 11608	BASE PINS	–
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 PLATE VOLTAGE	170 V
MAXIMUM CATHODE CURRENT	5 mA
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	140 V
<i>Cold-cathode glow-display section; maximum cathode current promoted in amperes.</i>	

Z8700M is a cold-cathode Nixie numerical/symbol indicator tube. The supplied RFT sheet gives 150 V ignition and 140 V burning voltage, a 170 V minimum operating supply, 3–5 mA cathode current, and 15.5 mm side-viewed symbols. Z8700M is tabulated directly in the supplied RFT display-tube data sheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Ignition Voltage	150 V	Published RFT table
Anode Burning Voltage	140 V	Published RFT table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Operating Voltage	170 V	Published RFT table
Minimum Cathode Current	3 mA	Published RFT table
Maximum Cathode Current	5 mA	Published RFT table
Peak Cathode Current	7 mA	Published RFT table
Minimum Ambient Temperature	-50 degC	Published RFT table
Maximum Ambient Temperature	70 degC	Published RFT table
Symbol Height	15.5 mm	Published RFT table
Maximum Viewing Distance	10 m	Published RFT table
Maximum Bulb Height	49.2 mm	Published RFT table
Maximum Bulb Diameter	22.2 mm	Published RFT table

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