



ELECTRONIC TUBE REFERENCE

Z5900M

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

RFT cold-cathode numerical/symbol indicator with 10 mm side-viewed characters. Manufacturer data specify approximately 150 V ignition, 140 V maintaining voltage, a 170 V minimum operating supply, and 1-2 mA cathode current for glow-discharge display service.

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

SECTION 1 Nixie	
MAXIMUM PLATE VOLTAGE	170 V
MAXIMUM CATHODE CURRENT	2 mA
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	140 V
<i>Cold-cathode glow-display section; maximum cathode current promoted in amperes.</i>	

Z5900M 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, 1-2 mA cathode current, and 10 mm side-viewed symbols. Z5900M 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
Anode Extinction Voltage	120 V	Published RFT table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Operating Voltage	170 V	Published RFT table
Minimum Cathode Current	1 mA	Published RFT table
Maximum Cathode Current	2 mA	Published RFT table
Peak Cathode Current	10 mA	Published RFT table
Minimum Ambient Temperature	-10 degC	Published RFT table
Maximum Ambient Temperature	50 degC	Published RFT table
Symbol Height	10 mm	Published RFT table
Maximum Viewing Distance	5 m	Published RFT table
Maximum Bulb Height	34 mm	Published RFT table
Maximum Bulb Diameter	12 mm	Published RFT table

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