



ELECTRONIC TUBE REFERENCE

GNP7A

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
NIXIE

Gas-filled cold-cathode Nixie numerical indicator designed to display decimal digits by selective glow discharge of shaped cathodes.

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	2.5 mA
<i>Cold-cathode glow-display section; maximum cathode current promoted from the comparable RFT data column.</i>	

GNP7A is a cold-cathode Nixie numeric/symbol display tube. The supplied datasheet set identifies Z5730M/Z5740M as a comparable RFT display type and provides ignition, burning and extinction voltages, cathode-current limits, environmental limits and mechanical/display data through that comparison.

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	Comparable RFT type Z5730M/Z5740M
Anode Burning Voltage	140 V	Comparable RFT type Z5730M/Z5740M
Anode Extinction Voltage	120 V	Comparable RFT type Z5730M/Z5740M

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Cathode Current	1.5 mA	Comparable RFT type Z5730M/Z5740M
Maximum Cathode Current	2.5 mA	Comparable RFT type Z5730M/Z5740M
Peak Cathode Current	12 mA	Comparable RFT type Z5730M/Z5740M
Minimum Ambient Temperature	-50 degC	Comparable RFT type Z5730M/Z5740M
Maximum Ambient Temperature	70 degC	Comparable RFT type Z5730M/Z5740M
Symbol Height	13 mm	Comparable RFT type Z5730M/Z5740M
Maximum Viewing Distance	8 m	Comparable RFT type Z5730M/Z5740M
Maximum Bulb Height	47.6 mm	Comparable RFT type Z5730M/Z5740M
Maximum Bulb Diameter	19 mm	Comparable RFT type Z5730M/Z5740M

TUBE TINKER

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