



ELECTRONIC TUBE REFERENCE

B6012

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

NIXIE

Gas-filled cold-cathode Nixie special-character indicator designed to display plus/minus or other dedicated symbols using shaped glow 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 CATHODE CURRENT	5 mA
MINIMUM REGULATOR CURRENT	2 mA
MAXIMUM REGULATOR CURRENT	3 mA
STARTING VOLTAGE	250 V
<i>Gas-filled cold-cathode Nixie special-character indicator; plus and minus special-character tube. Electrical/mechanical characteristics are stated to be generally comparable to the corresponding regular numerical tube family (7153).</i>	

B6012 is a gas-filled cold-cathode Nixie numerical/readout device. The shared catalog identifies it with the 7153 electrical family, using a maximum ionization voltage of 250 V and a recommended minimum supply of 250 V.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Nixie Burroughs

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

1961 NIXIE BURROUGHS

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization Voltage Maximum	250 V	—
Supply Voltage Minimum	250 V	Catalog minimum supply voltage
Cathode Current Peak	5 mA	—
Cathode Current Average	2.5 mA	—
Individual Cathode Wattage Maximum	0.8 W	—
Test Supply Voltage	250 V	—
Test Series Resistor	43 kOhm	—
Display Size Class	Super	—
Numeral Height	0.808 in	—
Recommended Socket	HSK106 or HSK112	—
Recommended Supply Voltage	250 V	Series resistor 43 kOhm
Recommended Series Resistor	43 kOhm	Supply voltage 250 V
Recommended Supply Voltage	300 V	Series resistor 62 kOhm
Recommended Series Resistor	62 kOhm	Supply voltage 300 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Current Minimum	2 mA	—
Cathode Current Maximum	3 mA	—

ENVIRONMENTAL		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Shock	55 G	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vibration	10 G	60 cps
Operating Temperature Range	-65 to +70 C	—
Altitude	70000 ft	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Burroughs Nixie

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

196X BURROUGHS NIXIE

Section 1 · Nixie

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization voltage	250 V	Absolute rating; maximum
Minimum supply voltage	250 V	Absolute rating; minimum recommended supply
Cathode current	5 mA	Peak
Cathode current	2.5 mA	Average
Individual cathode dissipation	0.8 W	Maximum
Anode supply voltage	250 V	BasicCircuit test condition
Anode series resistor	43 k0hm	BasicCircuit test condition
Cathode current	2–3 mA	BasicCircuit test condition
Numeral height	0.808 in	Super
Recommended anode series resistor	43 k0hm	Anode supply 250 V
Recommended anode series resistor	62 k0hm	Anode supply 300 V
Pre-bias voltage	75–120 V	Referenced to on cathode