# Dieter's

# Nixie Tube Data Archive

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Document in this file	Burroughs – Bulletin 1027
Display devices in	8422, B5991, SK-136, SK-144
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File created by Dieter Waechter www.tube-tester.com Burroughs Corporation

ELECTRONIC COMPONENTS DIVISION PLAINFIELD, NEW JERSEY

Bulletin No. 1027

NUMERICAL INDICATOR Engineering Data Report January 1, 1963



(B5991) Ultra Long Life Rectangular NIXIE<sup>R</sup> Tube

The 8422 (B5991) is a gas-filled, cold-cathode, rectangular numerical indicating tube containing a common anode and ten metallic cathodes. The cathodes are formed in the shape of numerals ("0" through "9"). The tube is intended for use as a direct in-line readout device. The width and depth of this tube are approximately 75% of standard size cylindrical types permitting side by side stacking in a minimum of panel space with no sacrifice in readability.

## MECHANICAL DATA

#### ELECTRICAL DATA

Overall Length 1.120 Max	Absolute Ratings
Seated Height	Ionization Voltage 170 Vdc Max.
Bulb Width	Supply Voltage
Bulb Length 1.020 Max	(Note 1)
Numeral Height	inal Cathode Current 3.5 ma max.
Pin Connection See figure	3
Mounting Position See note 2	Test Conditions (See Figure 1)
Weight	m. Supply Voltage (E) 170 Vdc
	Series Resistor (R) 8,2 K
	Cathode Current
	(Minimum) 1.5 ma
	(Maximum) 3.0 ma

ENVIRONMENTAL DATA

Temperature . . . . . . . -65° C. to +70° C. (Note 1) Altitude . . . . . . . . . . . . . . . 70,000 feet



FIGURE 1. Basic Circuit

### NOTES

1. The minimum supply voltage should be 170 volts. However, the use of highest available voltage with the appropriate series resistor is recommended to maintain cathode current within the specified limits. A supply voltage of 200 volts or more is recommended to assure proper operation at the temperature extremes.

2. The center line of the numbers to be displayed passes through pins 6 and 12 of the tube. The tube socket should be oriented so that pins 6 and 12 are in a vertical line with pin 12 at the top.



2.016

.187 DIA

1.250 ±.005

1.562 ±.046

Figure 2. OUTLINE DRAWING

Figure 3. PIN CONNECTIONS

390

507 R

1.250 ±.002

140 DIA.

2 - HOLES

MOUNTING HOLE LAYOUT

±.016

-(14) CONTACTS BERYLLIUM COPPER, Silver plated tin Dipped,

- CASTING MICA FILLED

PHENOLIC |

.625 ±.001





Figure 5. GENERAL PURPOSE SOCKET, SK-136

.343

.093

420 DIA.

.140

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312 DIA.

ļ

.625

.984 DIA. 1.016

144 DIA

TOP VIEW.

(2 - HOLES)





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