Burroughs Corporation

ELECTRONIC COMPONENTS DIVISION

Bulletin No. 1029 January 1, 1963

NUMERICAL INDICATOR Engineering Data Report

8423

(B6091) Ultra Long Life NIXIE Tube

The 8423 (B6091) is a gas-filled, cold-cathode, super size numerical indicating tube containing a common anode and ten individual metallic cathodes. The cathodes are formed in the shape of numerals ("0" through "9"). This tube is intended for use as a direct, in-line, readout device.

MECHANICAL DATA

ELECTRICAL DATA

Overall Length Seated Height Bulb Diameter Numeral Height	1.212 Max. 1.350 Max.	Absolute Ratings Ionization Voltage 170 Vdc Max. Supply Voltage 170 Vdc Min. (Note 1)
Pin Connection		Cathode Current 4.5 ma Max.
Mounting Position	See Note 2	
Weight	8 oz. nom.	Test Conditions
_		Supply Voltage (E) 170 Vdc
ENVIRONMENTAL DATA		Series Resistor (R) . 6.8 K
		Cathode Current (Ik)
Temperature	-65° C. to +85° C.	(Minimum) 1.5
Altitude		(Maximum) 4.0
_		- R



FIGURE 1. BASIC CIRCUIT

NOTES

- 1. The minimum supply voltage should be 170 volts. However, the use of the 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. Tubes should be mounted with pins 1 and 8 in a vertical line with pin 8 at the top.

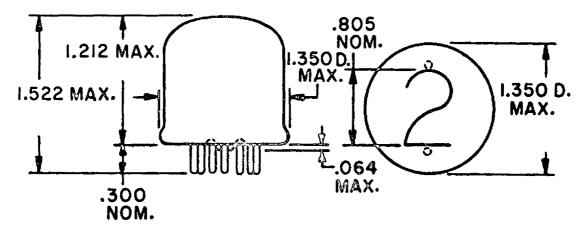


FIGURE 2. OUTLINE DRAWING

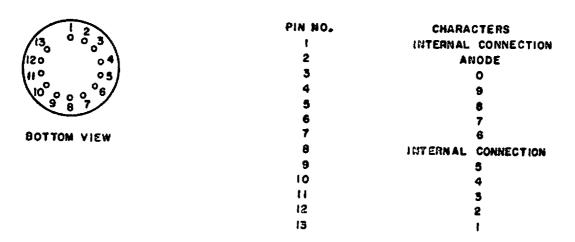


FIGURE 3. PIN CONNECTIONS

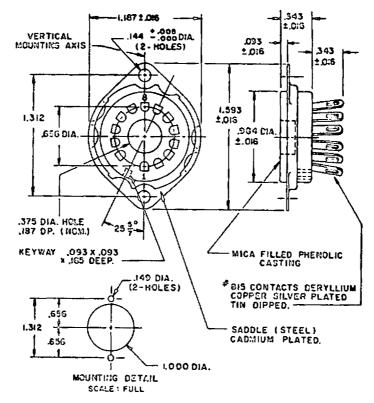


FIGURE 4. GENERAL PURPOSE SOCKET, SK-112