NUMERICAL INDICATOR

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engineering data report 6844Å

(BD-302) NIXIE*

The 6844A (BD-302) is an improved version of the type 6844. This tube is a gas-filled, cold cathode, 10-digit ("O" through "9"), numerical indicator tube, having a common anode with a suppressor screen to minimize darkening of the viewing dome. This tube features a cup design providing a non-glare background. It is intended for use as a direct in-line read-out device.

MECHANICAL DATA (SEE FIGURE 1)

Overall Length	1.380" Mex.
Seated Height	1.125" Max.
Bulb Diameter	1.080" Max.
Envelope Connections	See Figure 2
Height of Numerals	0.610" Nom.
Numerical Design (Human Engineering)	See Figure 3
Socket, 13-Pin	-
(#HSK-106 or HSK-112)	See Figure 4
Weight	
Mounting Position	See Note 1
Cathode(s)	
Shock	350 G's (30° Hammer)
Vibration	
Temperature	· -
Altitude	70,000 Feet

ELECTRICAL DATA

1. ABSOLUTE RATINGS:

 Ionization Voltage
 170 Vdc Minimum

 Anode Current
 4.0 MA

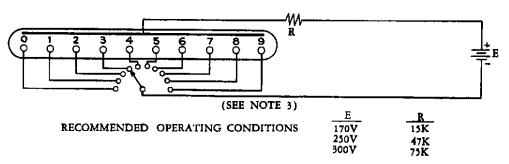
 Peak
 4.0 MA

 Average
 2.5 MA Max.

 Individual Cathode Wattage
 0.4 Watts Max.

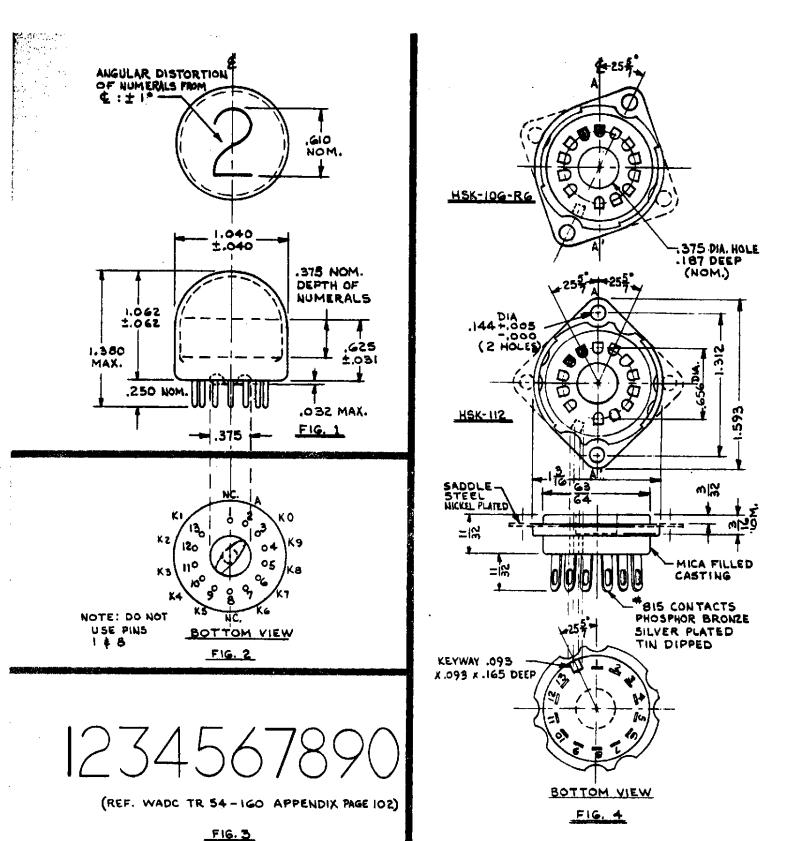
2. TEST CONDITIONS: (See Typical Circuit)

TYPICAL CIRCUIT



NOTES

- (1) The tube socket is oriented with respect to the viewing position so that A — A', intersecting the center of Pins 1 and 8 is vertical with Pin 8 on top. This orients the numerals in the correct vertical position. The numbers are viewed through the top of the tube.
- (2) From +30° C, to +70° C., no significant change in cathode current occurs. From +30° C, to -65° C, an increase in cathode (Up to 50%) may be expected.
- (3) Recommend highest voltage available be selected with corresponding series resistor.



Electronic Tube Division

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