### **NUMERICAL INDICATOR**



## engineering data report 7153

#### (BD-206) SUPER NIXIE\*

The 7153 (BD-206) is a gas-filled, cold cathode, 10-digit ("0" 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, readout device.

## MECHANICAL DATA (SEE FIGURE 1)

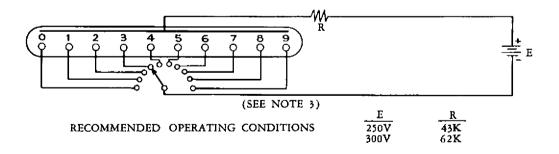
Overall Length	1.625" Max.
Seated Height	1.325" Max,
Bulb Diameter	1.350" Max.
Envelope Connections	See Figure 2
Height of Numerals	
Numerical Design	
(Human Engineering)	See Figure 3
Socket, 13-Pin	
(#HSK-106 or HSK-112)	See Figure 4
Weight	1.0 oz. Max.
Mounting Position	See Note 1
Cathode(s)	Glow Discharge
Shock	350 G's (30° Hammer)
Vibration	10 G's, 60 Cps.
Temperature	—65° C. through
-	+70° C., Note 2
Altitude	70,000 Feet

#### ELECTRICAL DATA

1. ABSOLUTE RATINGS:

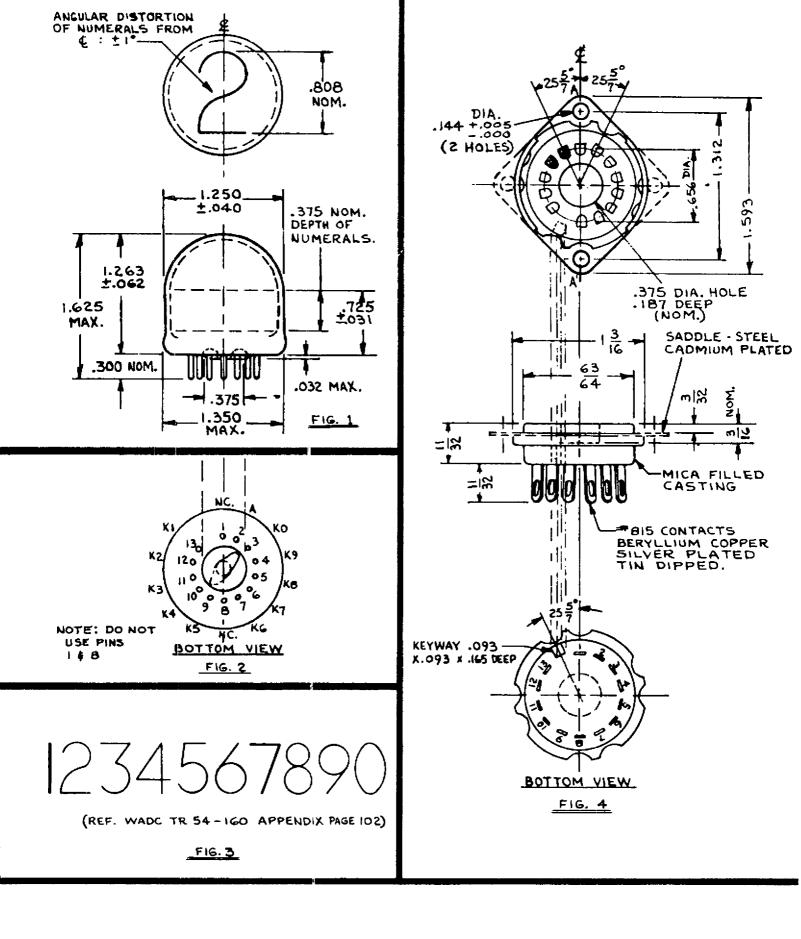
2. TEST CONDITIONS: (See Typical Circuit)

#### TYPICAL CIRCUIT



#### **NOTES**

- 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.



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