# Dieter's Nixie Tube Data Archive

This file is a part of Dieter's Nixie- and display tubes data archive

If you have more datasheets, articles, books, pictures or other information about Nixie tubes or other display devices please let me know.

Thank you!

Document in this file	General Electric – Y-1938 – original datasheet
Display devices in	Y-1938
this document	

File created by Dieter Waechter www.tube-tester.com



## -PRODUCT INFORMATION-

Low Voltage Indicator Tube

Y-1938

Inch

Page 1

12-70

**TENTATIVE SPECIFICATION SHEET** 

The Y-1938 is a low voltage seven bar segment vacuum cathodoluminescent readout tube which provides bright, sharp display of alphanumeric symbols at low drive and power levels. Symbols are displayed in type Y-1938 by excitation of phosphor-screened segments, which are energized by electrons emitted by a directly heated common cathode.

LOW POWER - Typical operation for high brightness is 25 volts for anode and 1.5 Vac or Vdc at 42 mA for the cathode.

FAST SPEED - Operates in the very high speed range through the use of low presistence phosphor.

BRIGHTNESS - Displays a highly visible blue-green color approximately 200 foot-lamberts.

WIDE ANGLE VIEWING - Single plane character formation with no parallax problems and up to 150° viewing range.

**RELIABILITY** - Long life construction that uses a single plane and thick film technology combined with the low total power requirements of less than 200 milliwatts.

CHARACTER SIMPLIFICATION - Only one type to display digits (0-9), letters - A, C, E, F, G, H, I, J, L, O, P, S, U, Y.

COMPACT SIZE - Standard miniature T61/2 bulb, two inches maximum height for minimum space requirements.

#### TYPICAL SPECIFICATIONS

#### **ELECTRICAL**

Filament Voltage Filament Current Filament Heating Power Anode Excitation Voltage (Max.) Anode Excitation Voltage (Typical) Anode Current/Segment at 25 Volts Maximum Total Anode Power Dissipation at 25 Volts	72 55 25 550	Vac or Vdc mA mW Vdc Vdc μa mW
OPTICAL		
Light Output (at 25 Vdc Anode Voltage	200	F-L

 Character Color
 Blue Green

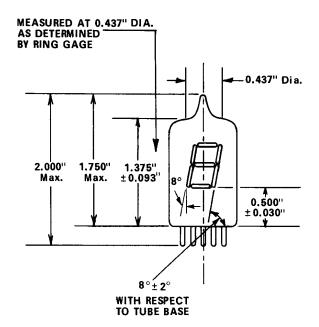
 Phosphor
 P15

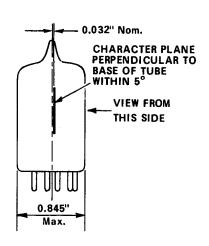
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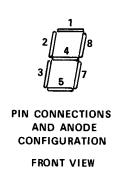
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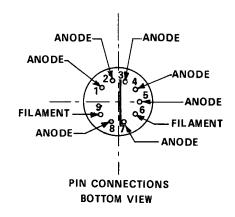


### **MECHANICAL SPECIFICATIONS**









CHARACTER SIZE: 0.570" X 0.360" SLANTED 8°

**TUBE PRODUCTS DEPARTMENT** 

GENERAL ELECTRIC

Owensboro, Kentucky 42301