

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/Y-1939 – original datasheet from Archer
Display devices in this document	Y-1938, Y-1939, 176-049

ARCHER

**SEVEN SEGMENT DIGITAL
FLUORESCENT DISPLAY**

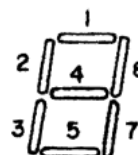
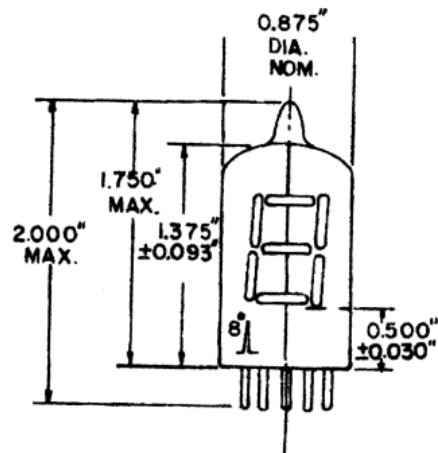
TYPE Y-1938/Y-1939—CATALOG #276-049

The Archer readout tube provides a bright, sharp display of numerals at low drive and power levels at a very fast speed. Numbers are displayed by excitation of phosphor-screened segments, which are energized by electrons emitted by a directly heated cathode.

FEATURES

1. Driven by a BCD to seven segment Decoder/Driver #7447.
2. Total power requirements of less than 175 MW.
3. Fluorescent segments are mounted on a single substrate for extra durability in portable applications.
4. Highly visible blue-green color. Easy on the eye.
5. Typical light output of 200 foot lamberts at 25 volts D.C.
6. Maximum allowable segment voltage is 35 volts D.C.

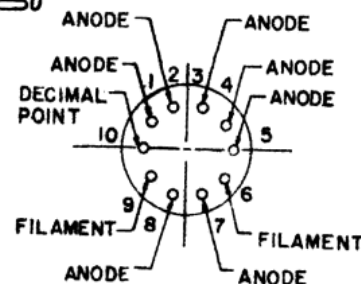
	UNIT	SEG. V.	FIL. V.	MIN.	NOM.	MAX.
Filament current	MA. AC/DC	27	1.5	35	40	45
Cathode current	MA. D.C.	27	1.5	—	4.0	9.0
Segment current	MA. D.C.	27	1.5	—	0.5	1.5
Average brightness	Ft/lambert	27	1.5	100	200	—



CHARACTER SIZE:

HEIGHT — 0.57

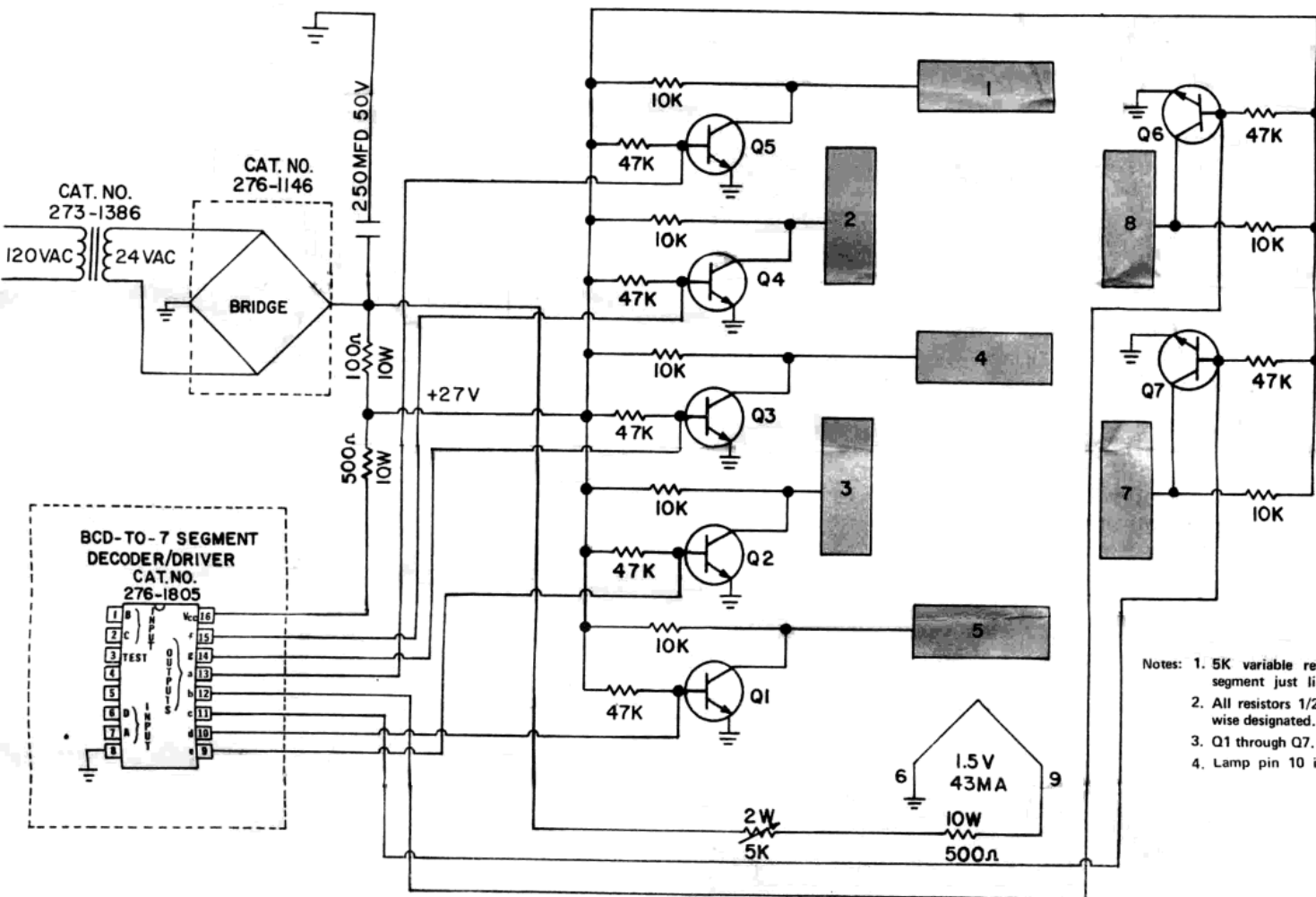
WIDTH — 0.36



PIN CONNECTIONS

**SCHEMATIC FOR USE WITH Y1938/Y1939
VACUUM FLUORESCENT NUMERICAL DISPLAY**

Bottom View



- Notes:
1. 5K variable resistor adjusts until segment just lights.
 2. All resistors 1/2 watt unless otherwise designated.
 3. Q1 through Q7. (Cat. No. 276-2016)
 4. Lamp pin 10 is used for decimal.