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	ETL datasheet: GC10/4B (CV1739) dekatron tubes
Display devices in	GC10/4B, CV1739
this document	

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

Bi-directional 10-way Computing Tube with Intermediate Outputs



Limit Ratings

•		
Maximum counting rate : sine angular pulses Maximum total anode current Minimum total anode current	wave and rect- 4,000 p.p.s. 550 μA 250 μA	
Minimum anode supply voltage (normal room illumination) Maximum a stantial difference betw	350 V	
Maximum potential difference betw cathodes Maximum output cathode load	ween guides and 140 V 150 kΩ	
Characteristics		
Running voltage at 300 μ A	191 V approx.	
Recommended Operating Condition	ons	
*Anode current	310 μA ± 20%	
**Guide bias	+20 V +40 V	
Bias on output cathode resistor	—20 V Zero	
Resultant pulse	40 V 40 V	
Forced resetting pulse	—120 V	
Double pulse drive-amplitude	$-80 \text{ V} \pm 10 \text{ V}$	
Double pulse drive-durations	60 µS	
Integrated pulse drive-amplitude	$145 V \pm 15 V$	
Integrated pulse drive-duration	80 μS	
Sine wave drive-amplitude	40—70 V r.m.s.	
* The required anode current may be of	btained from a 475 V supply	

via a 820 k Ω resistor.

** This does not apply in the case of the sine wave drive.

The following table shows the number of input pulses for which outputs may be obtained for both directions of drive and with each cathode used as the zero electrode.

Number of pulses to give output from :---

A	В	С	D	
0 0 9 1 6 4 4 6	1 9 0 7 3 5 5	4 6 3 7 0 0 8 2	6 4 5 2 8 0 0	Clockwise, A zero Anti-clockwise, A zero Clockwise, B zero Anti-clockwise, B zero Clockwise, C zero Anti-clockwise, C zero Clockwise, D zero Anti-clockwise, D zero





Mechanical Data

Alignment

Weight

Escutcheons

Any.

I.O.

For visual indication the tube is viewed through the dome of the bulb.

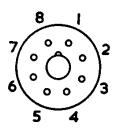
Cathode "B" is aligned with pin No. 6 to an accuracy of \pm 12°.

43 g (nominal).

N.78211 Bakelite, or N.79368 Brass.

Base

Base Connections (underside view)



Pin 1 Common cathodes

- Cathode "D" 2 3 1st Guides
- 4 Anode
- 5
- 2nd Guides
- 6 Cathode "A" 7 Cathode "B"
- 8 Cathode "C"

