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: GC12/4B tube
Display devices in this document	GC12/4B

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

Limit Ratings

0					
Maximum counting rate : sine	wave and	rect-			
angular pulses 4,000 p.p.s.					
Maximum total anode current	550 μA				
Minimum total anode current		250 μA			
Minimum anode supply voltage (normal room illumination) Maximum potential difference be	tween guides	350 V			
Maximum potential difference between guides and cathodes 140					
Maximum output cathode load		150 kΩ			
Haxinium output cathode load					
Characteristics					
Running voltage at 300 μA		191 V approx.			
Recommended Operating Condit	ions				
*Anode current		310 μA ± 20%			
**Guide bias	+20 V	+ 40 V			
Bias on output cathode resistor	20 V	Zero			
Resultant pulse	40 V	4 0 V			
Forced resetting pulse		—120 V			
Double pulse drive-amplitude		—80 V ± 10 V			
Double pulse drive-durations		60 µS			
Integrated pulse drive-amplitude		—145 V <u>+</u> 15 V			
Integrated pulse drive-duration		80 µS			
Sine wave drive-amplitude		40—70 V r.m.s.			
* The mentional smalle summers may be	-hastand from	A75 V supply			

* The required anode current may be obtained from a 475 V supply via an 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 :---

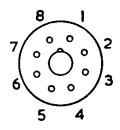
	D	С	В	A
Clockwise, A zero	9	7	1	0
Anti-clockwise, A zero	3	5	11	0
Clockwise, B zero	8	6	0	11
Anti-clockwise, B zero	4	6	0	1
Clockwise, C zero	2	0	6	5
Anti-clockwise, C zero	10	ŏ	6	7
Clockwise, D zero	Ō	10	4	3
Anti-clockwise, D zero	Ō	2	8	9

Bi-directional 12-way Computing Tube with Intermediate Outputs

Mechanical Data

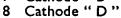
Mounting position	Any. For visual indication the tube is viewed through the dome of the bulb.
Alignment	Cathode '' B '' is aligned with pin No. 6 to an accuracy of \pm 10°.
Weight	43 g (nominal).
Escutcheon	N79369 Brass
Base	I.O.

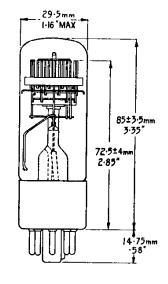
Base Connections (underside view)



Pin 1 Common cathodes 2 Cathode "C" 3 1st Guides 4 Anode

- 5 2nd Guides
- 6 Cathode "A"
- 7 Cathode "B"





ISSUE 2

