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: GC10B, GC10B/S, CV2271 tubes
Display devices in this document	GC10B, GC10B/S, CV2271

File created by Dieter Waechter
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Limit Ratings

Maximum counting rate : sine wave and rectangular 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)	350 V
Maximum potential difference between guides and cathodes	140 V
Maximum output cathode load	150 kΩ
Maximum output pulse available with 150 kΩ cathode load resistor	35 V

Characteristics

Running voltage at 300 μA (GC10B/S)	191 ± 5 V

Recommended Operating Conditions

*Anode current	310 μA ± 20%
**Guide Bias	+18 V
Bias on output cathode resistor	—20 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 ± 15 V
Integrated pulse drive-duration	80 μS
Sine wave drive-amplitude	40—70 V r.m.s.

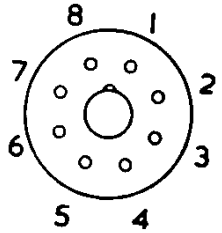
* The required anode current may be obtained from a 475 V supply via an 820 kΩ resistor.

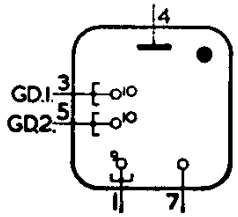
** This does not apply in the case of the sine-wave drive.

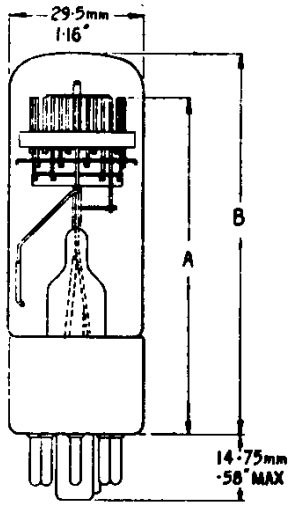
Mechanical Data

Mounting position	Any For visual indication the tube is viewed through the dome of the bulb.
Alignment	Cathode "O" is aligned with pin 6 to an accuracy of ± 12°.
Weight	43 g (nominal)
Escutcheons	N.78211 Bakelite, or N.79368 Brass
Base	I.O.

Base Connections
(underside view)







Pin 1 Common cathodes
2 —
3 1st Guides
4 Anode
5 2nd Guides
6 —
7 Cathode " O "
8 —

Dimension	Nominal	GC10B		GC10B/S	
		Min.	*Max.*	*Min.*	*Max.*
A	72·5 mm. (2·85")	68·5 mm.	76·5 mm.	69·5 mm.	75·5 mm.
B	85 mm. (3·35")	81·5 mm.	88·5 mm.	82·5 mm.	87·5 mm.