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: GS12D tube
Display devices in this document	GS12D

File created by Dieter Waechter
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Bi-directional 12-way Selector Tube

GS12D

Limit Ratings

Maximum counting rate: sine wave and rectangular pulses	4,000 p.p.s.
Maximum total anode current	350 μA
Minimum total anode current	190 μA
Minimum anode supply voltage (normal room illumination)	400 V
Maximum potential difference between cathodes and guides	140 V
Maximum output cathode load	270 kΩ
Maximum output available across a 270 kΩ cathode load resistor	35 V

Characteristics

Running voltage at 270 μA	191 V

Recommended Operating Conditions

*Anode current	270 μA ± 20%
**Guide bias	+36 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.

Mechanical Data

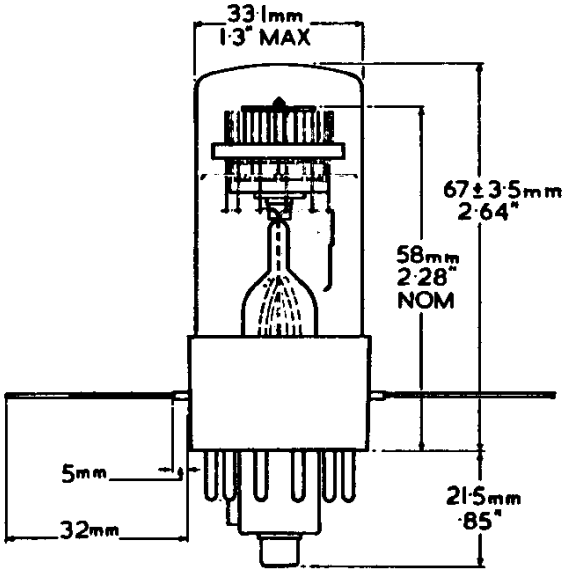
Mounting position	Any. For visual indication the tube is viewed through the dome of the bulb.
Alignment	Cathode No. 1 is aligned with pin No. 12 to an accuracy of ± 10°.
Weight	50 g (nominal).
Escutcheon	N.84538.
Base	Duodecal with bottom cap and two flying leads.

* The required anode current may be obtained from a 475 V supply via a 910 kΩ resistor.

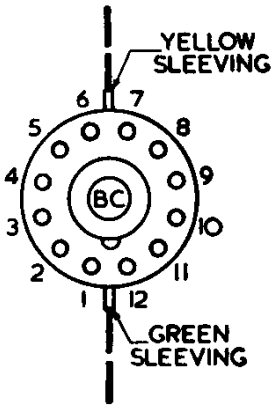
** This does not apply in the case of the sine wave drive.

GS12D

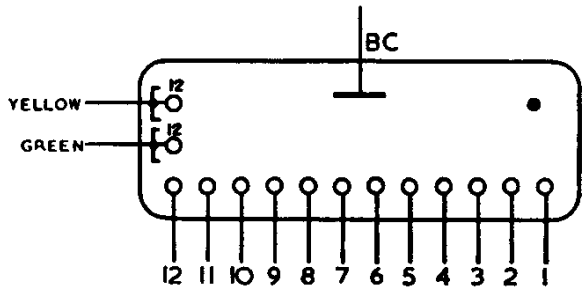
Bi-directional 12-way Selector Tube



Base Connections
(underside view)



Pin	1	Cathode 0
	2	" 11
	3	" 10
	4	" 9
	5	" 8
	6	" 7
	7	" 6
	8	" 5
	9	" 4
	10	" 3
	11	" 2
	12	" 1
Bottom Cap		" Anode



Lead between pins 6 and 7 with yellow sleeving — 1st Guides

Lead between pins 12 and 1 with green sleeving — 2nd Guides