

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

Limit Ratings

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

Characteristics

Running voltage at 270 μ A	191 V
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Recommended Operating Conditions

*Anode current	270 μ A \pm 20%
**Guide bias	+36 V
Forced resetting pulse	-120 V
Double pulse drive-amplitude	-80 V \pm 10 V
Double pulse drive-durations	60 μ S
Integrated pulse drive-amplitude	-145 V \pm 15 V
Integrated pulse drive-duration	80 μ S
Sine wave drive-amplitude	40-70 V r.m.s.

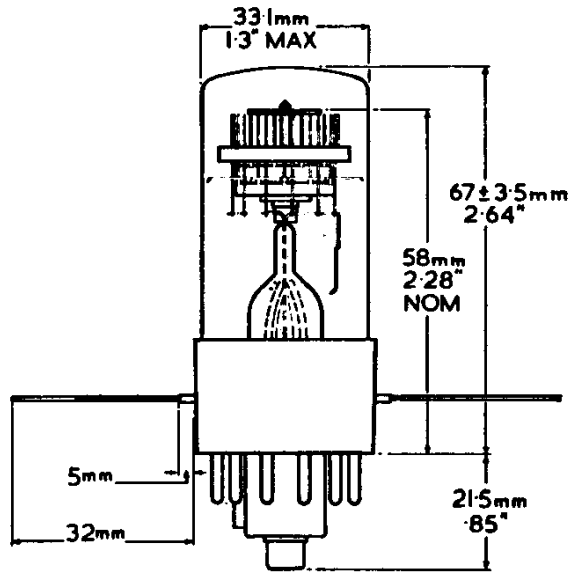
Mechanical Data

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 \pm 10°.
Weight	50 g (nominal).
Escutcheon	N.84538.
Base	Duodecal with bottom cap and two flying leads.

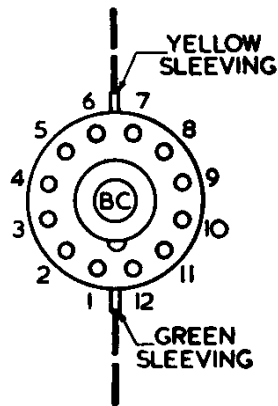
* The required anode current may be obtained from a 475 V supply via a 910 k Ω resistor.

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

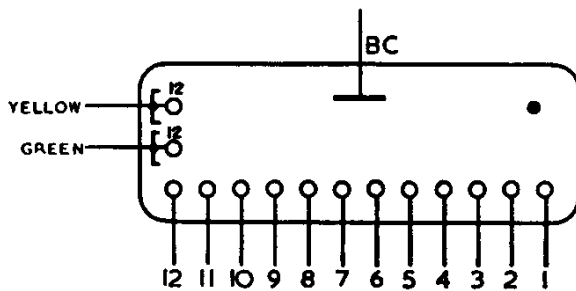




Base Connections
(underside view)



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

