

# 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: GC10/2P tube
Display devices in this document	GC10/2P

# Miniature Bi-directional 10-way Computing Tube

# GC10/2P

## Limit Ratings

Maximum counting rate: sine wave and rectangular pulses	1,000 p.p.s.
Minimum counting rate	1 p.p. hour
Maximum total anode current	500 $\mu$ A
Minimum total anode current	315 $\mu$ A
Minimum anode to cathode supply voltage (normal room illumination)	320 V
Maximum potential difference between cathodes and guides	140 V
Maximum output cathode load	150 k $\Omega$
Output pulse produced across the above	35 V

## Characteristics

Running voltage at 350 $\mu$ A	190 V approx.
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## Recommended Operating Conditions

*Anode current	350 $\mu$ A $\pm$ 10%
**Guide bias	+18 V
Bias on output cathode resistor	-20 V
Forced resetting pulse	-120 V
Double pulse drive—amplitude	-80 V $\pm$ 10 V
Double pulse drive—durations	300 $\mu$ S
Integrated pulse drive—amplitude	-145 V $\pm$ 15 V
Integrated pulse drive—duration	350 $\mu$ S
Integrated pulse drive—min. quiescent time	650 $\mu$ S
Sine wave drive—amplitude	40—75 V r.m.s.

\* The required anode current may be obtained from a 475 V supply via an 820 k $\Omega$  resistor.

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



# GC10/2P

# Miniature Bi-directional 10-way Computing Tube

## Mechanical Data

Mounting position

Any.

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

Alignment

Cathode "O" is approximately aligned with pin No. 5.

Weight

13 g (nominal).

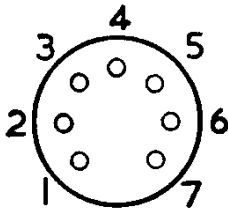
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N.84338.

Base

B7G

Base Connections  
(underside view)



- Pin 1 Do not connect
- 2 1st Guides
- 3 Common cathodes
- 4 2nd Guides
- 5 Cathode 0
- 6 Cathode 9
- 7 Anode

