

Bi-directional 10-way Computing Tube with Intermediate Outputs

GC10/4B
(CV.1739)

Limit Ratings

Maximum counting rate : sine wave and rectangular pulses	4,000 p.p.s.
Maximum total anode current	550 μ A
Minimum total anode current	250 μ A
Minimum anode supply voltage (normal room illumination)	350 V
Maximum potential difference between guides and cathodes	140 V
Maximum output cathode load	150 k Ω

Characteristics

Running voltage at 300 μ A	191 V approx.
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Recommended Operating Conditions

*Anode current		310 μ A $\pm$ 20%
**Guide bias	+20 V	+40 V
Bias on output cathode resistor	-20 V	Zero
Resultant pulse	40 V	40 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.

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

A	B	C	D	
0	1	4	6	Clockwise, A zero
0	9	6	4	Anti-clockwise, A zero
9	0	3	5	Clockwise, B zero
1	0	7	5	Anti-clockwise, B zero
6	7	0	2	Clockwise, C zero
4	3	0	8	Anti-clockwise, C zero
4	5	8	0	Clockwise, D zero
6	5	2	0	Anti-clockwise, D zero



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 $\pm 12^\circ$.

Weight

43 g (nominal).

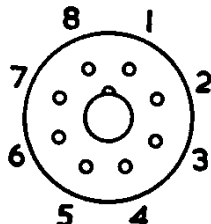
Escutcheons

N.78211 Bakelite, or
N.79368 Brass.

Base

I.O.

Base Connections
(underside view)



- Pin 1 Common cathodes
2 Cathode " D "
3 1st Guides
4 Anode
5 2nd Guides
6 Cathode " A "
7 Cathode " B "
8 Cathode " C "

