

# 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: GR10A (CV5291) tube
Display devices in this document	GR10A, CV5291

**Limit Ratings**

Minimum anode to cathode voltage to ensure breakdown (normal room illumination)	129 V ←
Maximum voltage across tube and 500 kΩ resistors to ensure tube extinguishes	105 V ←
Maximum potential difference between any two cathodes (Cathode resistors min. value of 300 kΩ)	120 V ←
Maximum total anode current	250 μA
Minimum total anode current	50 μA

**Characteristics**

Running voltage at 60 μA 108 V approx.

**Recommended Operating Conditions**

Anode current 60 μA

To ensure correct operation the cathode potential must change by a voltage  $V_o$  where :—

$$\begin{aligned} V_o &> V_s - V_x \\ &> 129-105, \text{ i.e., } 24 \text{ volts} \end{aligned}$$

$V_s$  = Striking voltage

$V_x$  = Extinction voltage

N.B. ← Indicates a change from previous data sheets.



# GR10A

(CV5291)

# 10-way Register Or Indicator Tube

## Mechanical Data

Mounting position

Any.

The tube is viewed through the dome of the bulb.

Alignment

Cathode No. 2 is aligned with pin No. 11 to an accuracy of  $\pm 12^\circ$ .

Weight

50 g.

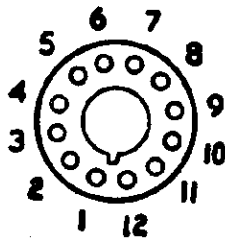
Escutcheon

N.80977.

Base

Duodecal.

Base Connections  
(underside view)



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

