

# 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: GS10E tube (taken out of a tube box)
Display devices in this document	GS10E

# GS 10 E DEKATRON TUBE

## PERFORMANCE DATA AND BASE CONNECTIONS

### Mechanical Data

Mounting position	Any.
	For visual indication the tube is viewed through the dome of the bulb.
Alignment	Cathode 1 is aligned with pin No. 11 to an accuracy of $\pm 12^\circ$ .
Weight	53 g (nominal)
Base	Duodecal with bottom cap.
Escutcheon	N80977.

### Limit Ratings

Maximum operating speed: sine wave and rectangular pulses	10 kc/s
$V_a$ minimum	440 V
$I_a$ maximum	0.9 mA
$I_a$ minimum	0.7 mA
Maximum cathode voltage excursion	35 V
Minimum voltage between $V_k$ and $V_g$ ( $V_g - V_k$ )	10 V

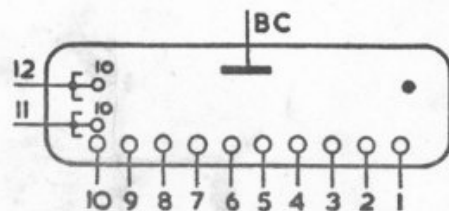
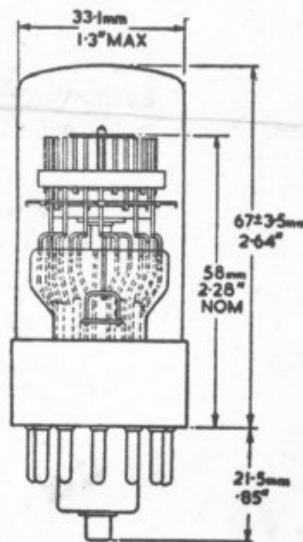
### Recommended Operating Conditions

Anode supply voltage	475 V
Anode current	0.8 mA
Anode resistor	240 k $\Omega$ 5%
Cathode voltage ( $V_G = 50 \pm 5$ V)	35 V max.
Pulse Amplitude—Double Pulse ( $V_G = 50 \pm 5$ V $R_G = 33$ k $\Omega$ )	-120 V min.
Pulse Duration—	25 $\mu$ S min.
Pulse Overlap—	$7 \pm 3$ $\mu$ S
Pulse Amplitude—Integrated Pulse Drive	-130 V min.
Pulse Duration—	25 $\mu$ S min.

Base Connections  
(underside view)



Pin 1	Cathode 0
2	" 9
3	" 8
4	" 7
5	" 6
6	" 5
7	" 4
8	" 3
9	" 2
10	" 1
11	2nd Guides
12	1st Guides
B.C.	Anode



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