

***DIGITRON—Long Life 7 Character End-Viewing GR 7 M**
Cold Cathode Register Tube Containing
 Characters +, −, V, A, Ω, %, and ~

Characteristics & Recommended Operating Conditions
 (at room temperature unless otherwise stated)

Minimum anode to cathode voltage to ensure breakdown	160V
Nominal running voltage at 2mA	140V
D.C. Operation -	
Recommended Cathode Current	2mA
Min. Positive bias on non-conducting cathodes (See Note 1)	60V
Half-wave A.C. Supply -	
Recommended Cathode Current, average	1.5mA
peak	7mA
Min. Positive bias on non-conducting cathodes (See Note 1)	40V
Life Expectancy (2mA Cathode Current)	
Continuous ionisation of one Cathode	>5,000 hours
Sequentially Switching Cathodes every 100 hours or less	>30,000 hours

Absolute Maximum Ratings

Cathode current (each character) -	
Maximum average (averaging time = 20mS)	2.5mA
Maximum peak	10mA
Minimum for D.C. operation	1.0mA
Bulb temperature -	
Maximum	+ 70°C
Minimum	-50°C

Notes: -

- (1) Under limit conditions some deterioration of the glow appearance may occur during life. To minimise this, the voltage between the conducting and non-conducting cathodes should be as high as possible.

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Mechanical Data

Mounting position

Base

Socket

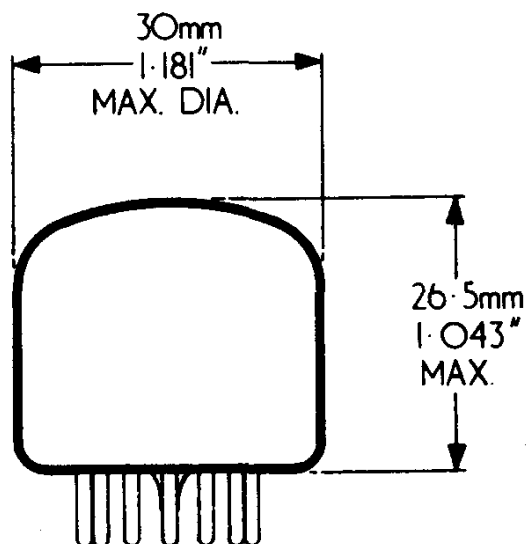
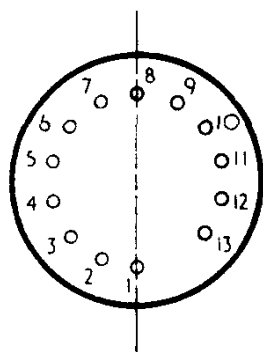
Any

B13B

B13B

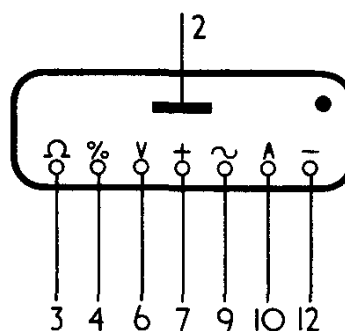
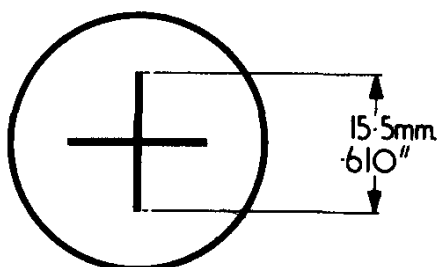
Base Connections
(underside view)

CENTRE LINE OF CHARACTERS

The dome of the tube
is filter coated

- Pin 2 Anode
 3 Cathode Ω
 4 Cathode %
 6 Cathode V
 7 Cathode +
 9 Cathode ~
 10 Cathode A
 12 Cathode −

Note - All other pins are
to be left unconnected.



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