VALVE ELECTRONIC **CV2331**

GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV2331/Issue 2	SECURITY	
	Specification	Valve
Dated: March 1957.	Unclassified	Unclassified
To be read in conjunction with K 1001 ignoring clause 5.2		

⟶ indicates a change

TYPE OF VALVE: Subminiature output pentode

CATHODE: Directly heated

ENVELOPE: Unmetallised glass

PROTOTYPE DL 64.

MARKING

CV 2331

Code date of manufacture.
Factory identification code.

RATING			Note
Filament voltage	(V)	1.25	
Nominal filament current	(mA)	10	
Max. anode voltage	(V)	45	
Max. screen grid voltage	(V)	45	
Max cathode current	(μA)	600	
Mutual conductance	(μA/V)	180	A
Anode impedance	(KΩ)	400	A
Power output	(μW)	950	B
Optimum anode load	(KΩ)	100	
CAPACITANCES	(pF)		
Cag.		0.25	
Cin.		2.5	
Cout.		2.4	

BASE

B5A
(See drawing on page 3)

CONNEXIONS (Note C)

(See drawing on page 3)

DIMENSIONS

(See drawing on page 3)

NOTES A. Measured with Va = Vg2 = 15V & Vg1 = −1.5V

B. Measured with Va = Vg2 = 15V & Vg1 = −1.55V & Vg input = 0.85V r.m.s.

C. A sharp bend must not be made in any valve lead closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.

TESTS (See Note 1)

To be performed in addition to those applicable in K 1001.

	Test conditions			Test	Limits		No. Tested	Note
	Vf	Vht	fc/s		Min.	Max.		
a	1.25	-	-	If (mA)	9.0	11.0	100%	
b	1.5	18		Ik (mA)	0.165	0.230	100%	2
c	1.5	18	1000	Output voltage measured with an input of 1 volt r.m.s. (V)	5.0	-	100%	3
d	1.0	18	1000	Output voltage measured with an input of 1 volt r.m.s. (V)	4.5	-	100% or S	3
e	1.0	14	1000	Output voltage measured with an input of 0.5 volt r.m.s. (V)	2.1	-	100% or S	3

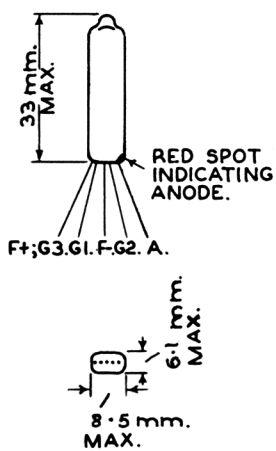
NOTES. 1. The equipment used for testing is to be approved by G.P.O.

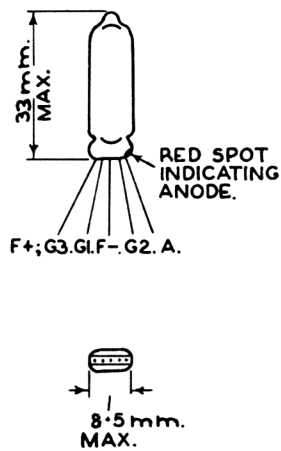
2. Measured in the HT + ve lead of test circuit shown on Page 4.

3. Measured in Test Circuit shown on Page 4.

CV2331

PIN CONNEXIONS & OUTLINE DRAWING.



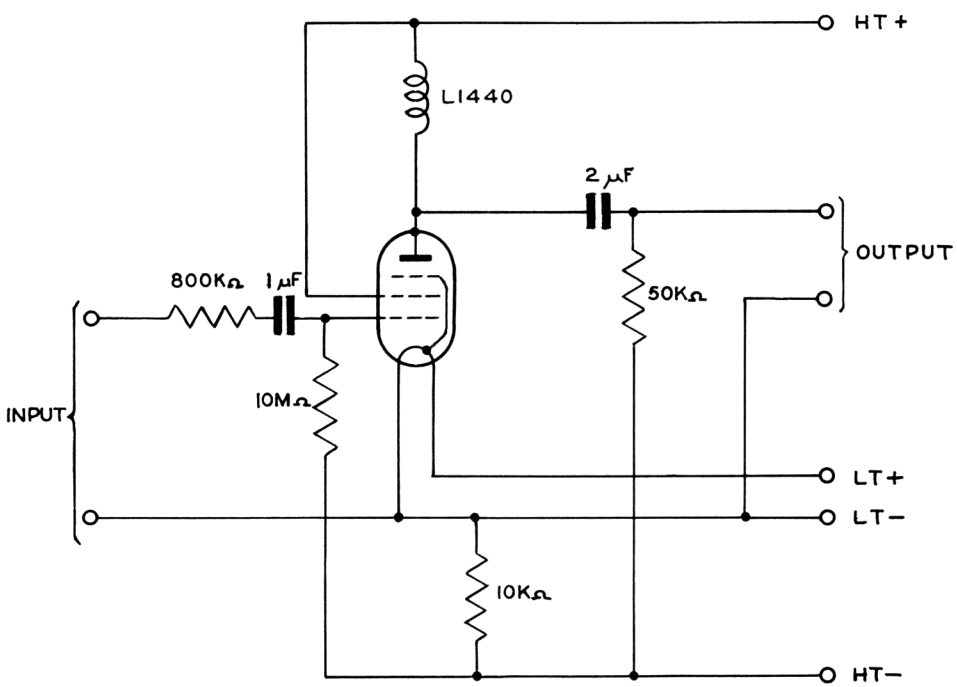


SPACING OF LEADS 1·3mm.

THE LEADS SHALL BE FLEXIBLE 0·34-0·48mm DIAM. TINNED, COPPER CLAD NICKEL IRON WIRE, AT LEAST 32mm IN LENGTH.

CV2331

TEST CIRCUIT.



NOTES :-

1. CHOKE GPO TYPE L1440 MAY BE OBTAINED ON APPLICATION TO GPO (RA9/2).

2. H.T. SOURCE IMPEDANCE TO BE LESS THAN 100 OHMS AT THE TEST FREQUENCY.