

VALVE ELECTRONIC **CV385**

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

Specification: <b>G.P.O./CV 385/Issue 7</b> Dated: 12th July 1949. To be read in conjunction with K 1001 ignoring <b>Clause 5.2.</b>	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> <b>Sub-miniature output pentode</b> <u>CATHODE:</u> <b>Directly heated</b> <u>ENVELOPE:</u> <b>Unmetallised Glass</b> <u>PROTOTYPE</u> <b>OK 502 AX (Raytheon)</b>		<u>MARKING</u> <b>CV 385</b> Code date of manufacture Factory identification code	
		<u>BASE</u> B5A or B8D (See drawing on page 3)	<u>CONNECTIONS</u> See drawing on page 3
		<u>DIMENSIONS</u> See drawing on page 3	
		<u>NOTE</u> A. Measured with $V_a = V_{g2} = 45$ , and $V_{g1} = -1.5$ 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.	

NOTE

A. Measured with  $V_a = V_{g2} = 45$ , and  $V_{g1} = -1.5$

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# CV 385

TESTS (see Note.1)

To be performed in addition to those applicable in K 1001

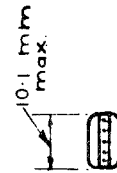
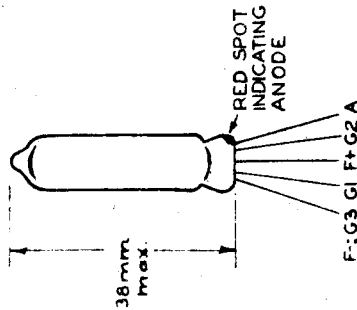
	TEST CONDITIONS			TEST	LIMITS		No. Tested
	Vf	Vht	f(c/s)		Min.	Max.	
→ a	1.25	-	-	If (mA)	-	28	100%
b	1.5	20	-	Ia (Note 2) (mA)	0.09	0.17	100%
c	1.1	20	1000	Gain (Note 3) (db)	22	-	100%
→ d	1.5	20	1000	Gain (Note 3) (db)	NOTE 5		10 per week
→ e	1.1	30	1000	Gain (Note 3) (db)	NOTE 6		10 per week
→ f	1.1	20	1000	Output volts Measured with an input of 2.0 volts (Note 4)	5.5		10 per week

NOTES

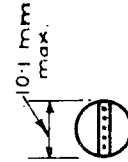
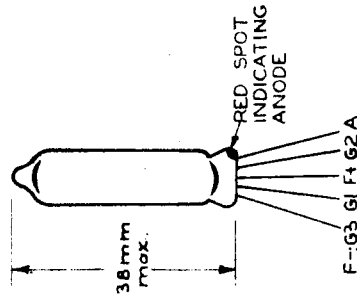
1. The equipment used for testing is to be approved by G.P.O.
2. Measured in anode circuit of Test Circuit shown on page 4.
3. Measured in Test Circuit shown on page 4, and with a low input.
4. Measured in Test Circuit shown on page 4.
5. To be not less than the gain obtained in Test C.
6. To be not less than 2 db more than the gain obtained in Test C.

# PIN CONNEXIONS & OUTLINE DRAWING

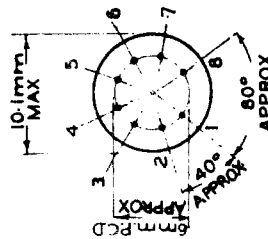
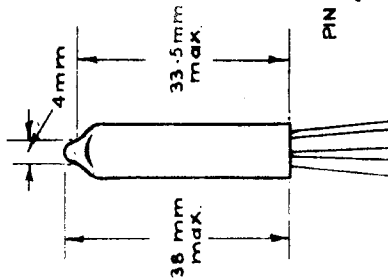
FLAT BULB  
AND B5A BASE



ROUND BULB  
AND B5A BASE



ROUND BULB  
AND B8D BASE



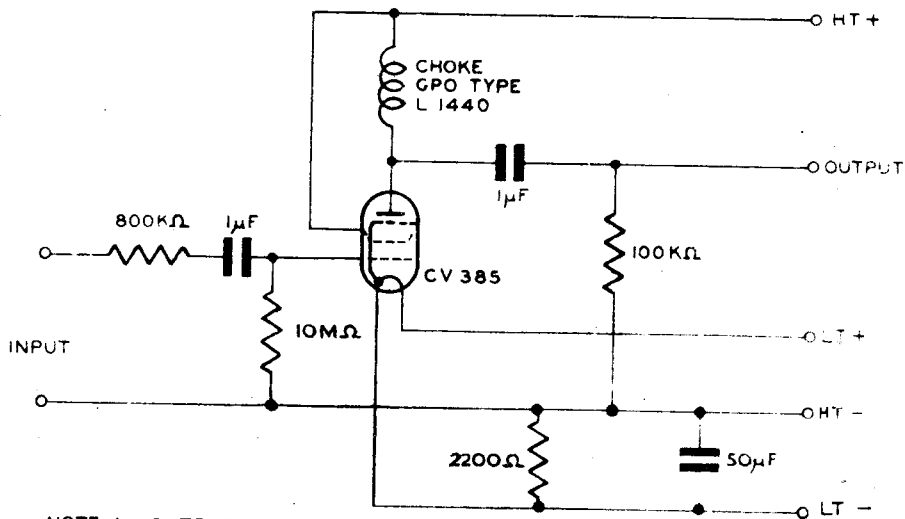
- PIN 1 OMITTED
  - 2 G1
  - 3 OMITTED
  - 4 -FIL & G3
  - 5 +FIL
  - 6 OMITTED
  - 7 A
  - 8 G2
- ANODE CONNEXION  
ON PIN 7 TO BE  
INDICATED BY A  
SUITABLE RED MARK

SPACING OF LEADS 1-3 mm.

VALVE BASE APPROX.  $\frac{2}{1}$

THE LEADS SHALL BE FLEXIBLE 25-27 S.W.G. TINNED  
COPPER CLAD NICKEL IRON WIRE, AT LEAST 32mm IN LENGTH.

## TEST CIRCUIT



NOTE 1 OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & HT-

2. CHOKE GPO TYPE L 1440 MAY BE OBTAINED ON APPLICATION TO G.P.O.
3. HT SOURCE IMPEDANCE TO BE LESS THAN 100 OHMS AT THE TEST FREQUENCY.