

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

Specification: G.P.O./CV 387/Issue 8 Dated: November, 1952. To be read in conjunction with K 1001 ignoring Clause 5.2.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

-----> indicates a change

<u>TYPE OF VALVE:</u> Sub-miniature output pentode			<u>MARKING</u>	
<u>CATHODE:</u> Directly heated			CV 387	
<u>ENVELOPE:</u> Unmetallised glass			Code date of manufacture	
<u>PROTOTYPE</u> CK 506 AX (Raytheon)			Factory identification code	
<u>RATING</u>			<u>NOTE</u>	<u>BASE</u>
Filament voltage	(V)	1.25	A A A	B5A or B8D
Nominal filament current	(mA)	25.0		(See drawing on page 3)
Max. anode voltage	(V)	45.0		
Max. screen voltage	(V)	45.0		
Mutual conductance	(mA/V)	0.5		
Anode impedance	(megohms)	0.12		<u>CONNEXIONS</u>
Optimum anode load	(megohms)	0.03		See drawing on page 3
Nominal power output	(mW)	25.0		<u>DIMENSIONS</u>
See drawing on page 3				
<u>NOTE</u>				
A. Measured with $V_a = V_{g2} = 45$, and $V_{g1} = -4.5$				
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.				

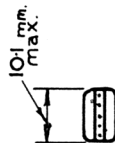
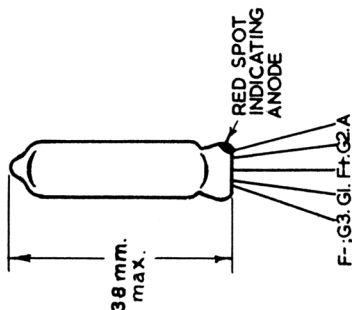
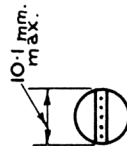
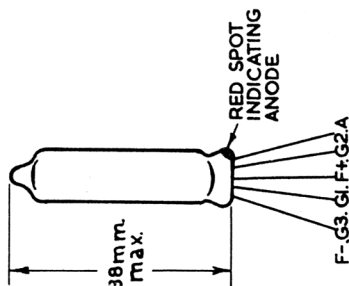
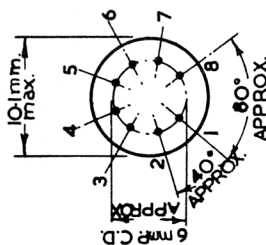
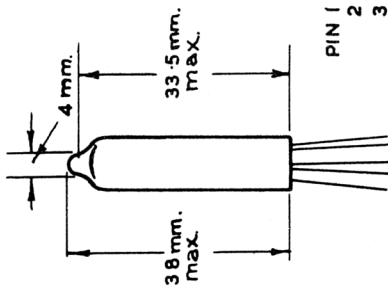
TESTS (see Note 1)

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	30	-	Ia (Note 2) (mA)	0.9	1.7	100%
c	1.1	30	1000	Gain (Note 3) (db)	13	-	100%
d	1.5	30	1000	Gain (Note 3) (db)	13	-	10 per week
e	1.1	45	1000	Gain (Note 3) (db)	NOTE 5	-	10 per week
f	1.1	30	1000	Output volts Measured with an input (V) of 4.0 volts (Note 4)	8	-	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.

PIN CONNEXIONS &
OUTLINE DRAWINGFLAT BULB
AND B5A BASEROUND BULB
AND B5A BASEROUND BULB
AND B8D BASE

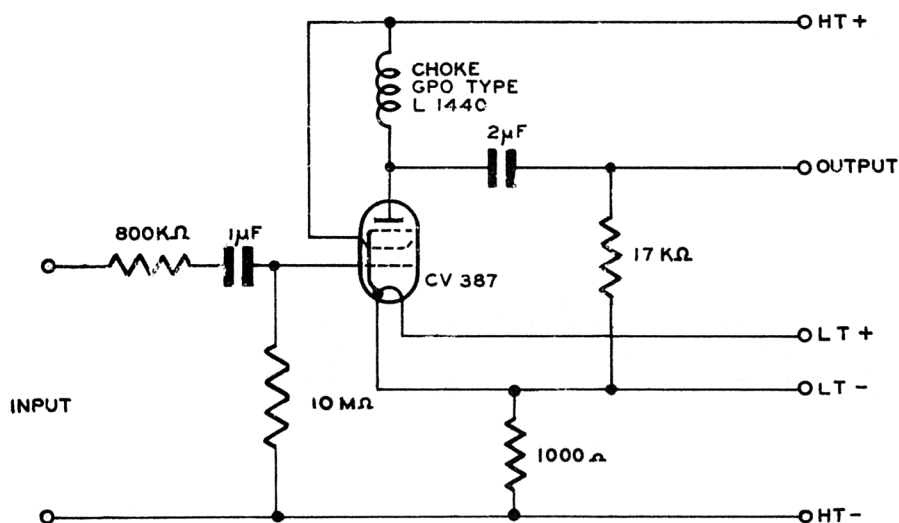
- PIN 1 OMITTED
2 G1
3 OMITTED
4 -FIL & G3
5 +FIL
6 OMITTED
7 A
8 G2

SPACING OF LEADS 1.3 mm

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

THE LEADS SHALL BE FLEXIBLE TINNED, COPPER CLAD
NICKEL IRON WIRE, OF 0.34-0.48 mm. DIAMETER AND
AT LEAST 25 mm IN LENGTH.

TEST CIRCUIT



NOTES 1. OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & HT -

2. CHOKE GPO TYPE L 1440 MAY BE OBTAINED ON APPLICATION TO G.P.O.

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

4. CAPACITANCE BETWEEN HT. - AND LT. - TO BE NOT GREATER THAN 10,000 pF.