VALVE ELECTRONIC CV 386

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

	SECURITY	
Specification: G.P.O./CV 386/Draft Issue 5	Specification	Valve
Dated: 22nd April 1948	Restricted	Restricted
To be read in conjunction with K 1001 ignoring Clause 5.2		

⟶ indicates a change

TYPE OF VALVE:	Sub-miniature pentode
CATHODE:	Directly heated
ENVELOPE:	Unmetallised glass
PROTOTYPE:	CK 505 AX (Raytheon)

MARKING

CV 386

Code date of manufacture

Factory identification code

RATING			NOTE
Filament voltage	(V)	0.625	
Nominal filament current	(mA)	25.0	
Max. anode voltage	(V)	45.0	
Max. screen voltage	(V)	45.0	
Mutual conductance	(mA/V)	0.18	A
Anode impedance	(megohms)	0.5	A
Optimum anode load	(megohms)	1.0	
Nominal voltage gain		35.0	A

BASE

See drawing on page 3

CONNEXIONS

See drawing on page 3

DIMENSIONS

See drawing on page 3

NOTE

A. Measured with Va = Vg2 = 30, and Vg1 = 0

This valve type is obsolescent and is superseded by CV 443

TESTS (see Note 1)

To be performed in addition to those applicable in K 1001

	Test Conditions			Test	Limits		No. Tested
					Min.	Max.	
	Vf	Vnt	f(c/s)				
a	0.625	-	-	If (mA)	22	28	100%
b	0.55	20	50	Gain (Note 2) (db)	17	-	100%
	0.75	20	50				
c	0.55	30	50	Gain (Note 2) (db)	26	-	1.0%
	0.75	30	50				
d	0.55	20	50	Gain (Note 3) (db)	23	-	100%
	0.75	20	50				
e	0.55	30	50	Gain (Note 3) (db)	27	-	1.0%
	0.75	30	50				
f	0.75	30	-	Microphony (Note 4)	-	Note 4	1.0%

Note 1:- The equipment used for testing is to be approved by C.I.E.M.E.

Note 2:- Tested in Test Circuit 1 shown on page 4

Note 3:- Tested in Test Circuit 2 shown on page 4

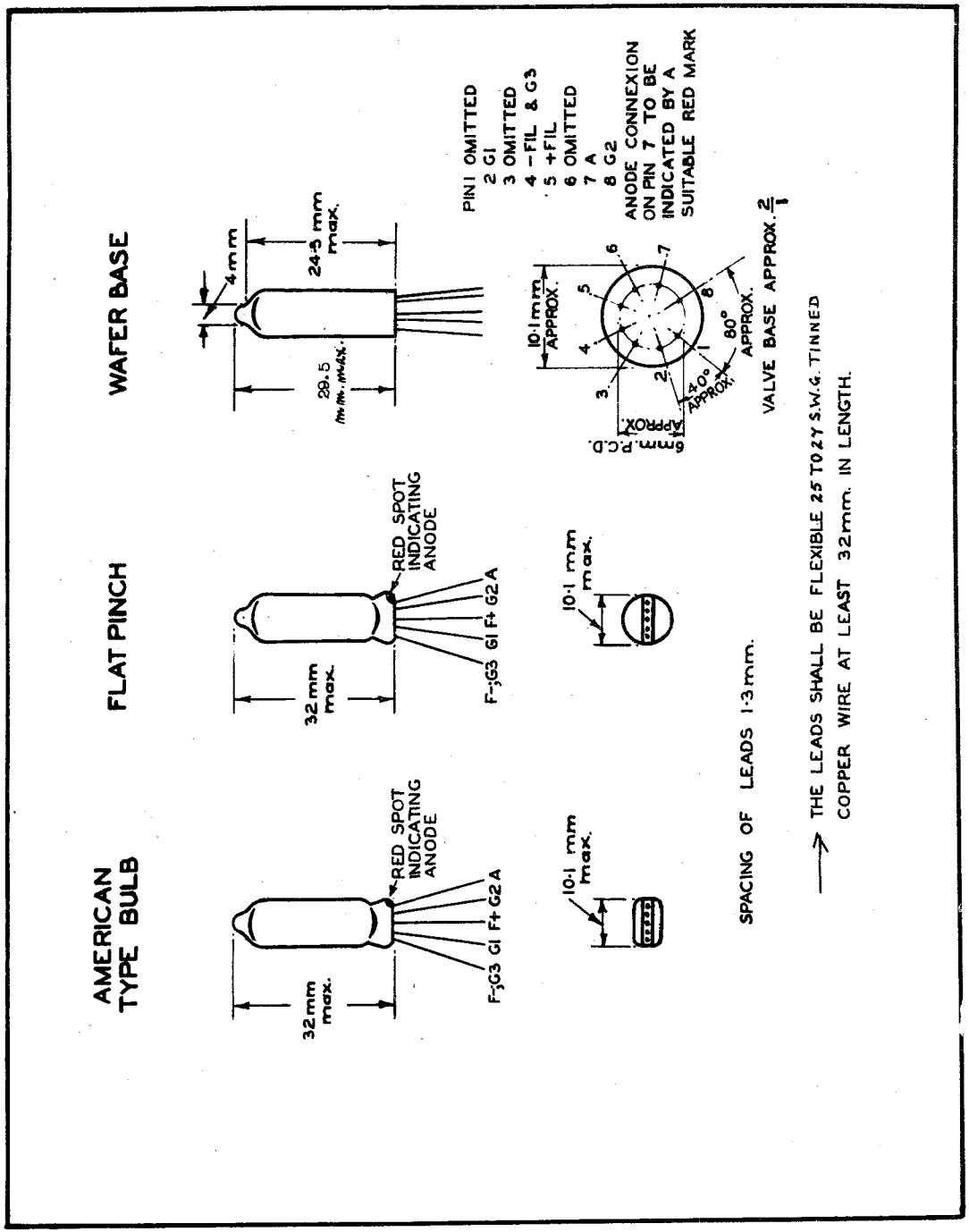
Note 4:- The microphony test may be undertaken on the manufacturers' standard testing equipment if such is suitable and the limits to be adopted shall be established as follows:-

A valve will be inserted in Test Circuit 2 (shown on Page 4) with $V_g = 0.75$, $V_{HT} = 30$, with the oscillator input shorted and the oscillator inoperative. The valve will be hit a standard blow with a hammer as described in the Specification for Valve Electronic CV 61 Issue 4, dated 24.11.43. The peak-peak output voltage developed between the test point and HT-, as measured on a cathode ray tube, must then be not more than 1.5 volt.

The equivalent maximum limit on the manufacturers' test set can then be established and agreed by the inspecting authority.

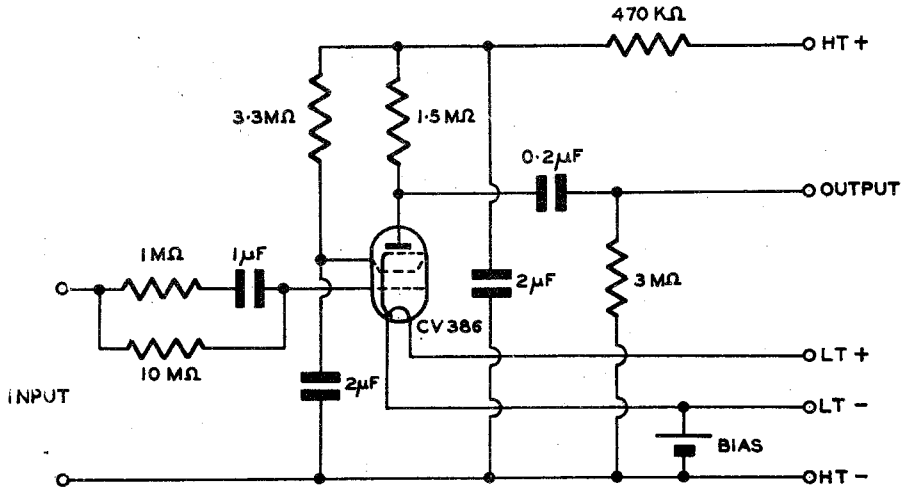
CV 386

PIN CONNEXIONS & OUTLINE DRAWING



CV 386

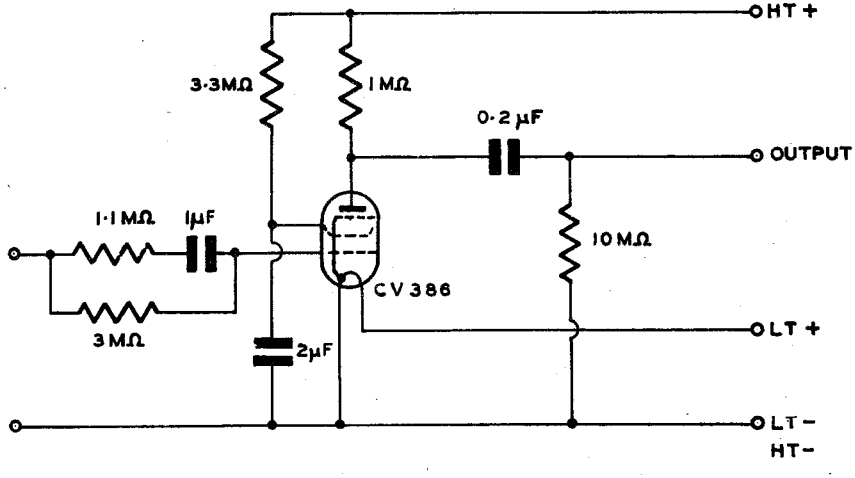
TEST CIRCUIT 1



NOTE 1. BIAS VOLTAGE = L.T. VOLTAGE
= V_F QUOTED IN SPECIFICATION

NOTE 2. OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & HT–

TEST CIRCUIT 2.



NOTE OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & HT–