ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

VALVE ELECTRONIC **CV340**
(was CV151 Red)

Specification AD/CV340/Issue 2. Dated 10.4.50. To be read in conjunction with K1001 ignoring clauses:- 5.2, 5.8.	SECURITY Specn. [redacted] Unclassified Valve Unclassified

TYPE OF VALVE:- Hot cathode, gas filled grid controlled triode.

CATHODE:- Directly heated.

ENVELOPE:- Glass.

PROTOTYPE:- XGR3.

MARKING

See K1001/4.
Colour mark as in Fig.1.

RATING			Note
Vf	(V)	1.4	
Min. If	(mA)	65	
Va	(V)	135	A
Vg striking	(V)	-4.0 to -5.0	B

DIMENSIONS AND CONNECTIONS

See Fig.1.

BASE

None
Flexible Wires

NOTES

A. Applied through 0.1 megohm resistance.

B. Applied through 5 megohm resistance.

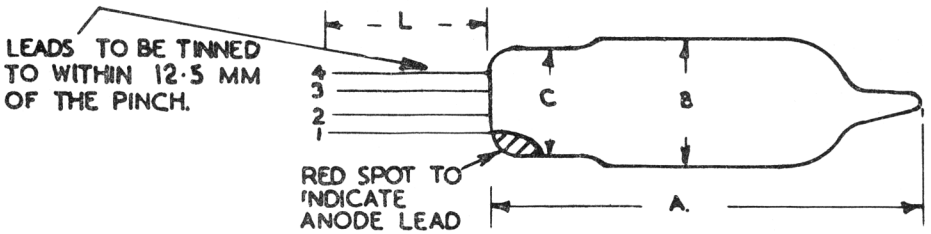
C. Tests (b), (c) and (d) have alternative tests marked (i) and (ii). Either one may be used. In Test (i) pure D.C. must be used. There must be no A.C. ripple. In Test (ii) the A.C. voltage must be sinusoidal.

TESTS

All tests, except 'e' to take place not less than six weeks after manufacture.

	Test Conditions		Test	Limits		No. Tested
	Vf (V)			Min.	Max.	
a	1.4	Va = Vg = 0	If (mA)	65		100%
b	1.4	Test in circuit shewn in Fig.2.	"Vg" for striking (i) (V DC) (ii) (V RMS)	 -4.0 2.7	 -5.0 3.5	100%
c	Test 'b' repeated within 5 mins., change (+) in Vg for striking, from value in test 'b' observed.		Variation in "Vg" for striking (i) (V DC) (ii) (V RMS)	 - -	 0.2 0.14	100%
d	1.1 ← N.B. Test 'b' repeated. Change in Vg for striking, from value in test 'b' observed.		Change of "Vg" with Vf (i) (V DC) (ii) (V RMS)	 - -	 1.0 0.7	100%
e	Valve operated with Va = 135 V through 0.1 Megohm Vf = 1.1V on for 60 secs. and off for 3 mins. successively. Va applied throughout. Vg set for non-striking. On/off cycle repeated at least 1000 times.		Life test	Valve must pass tests a, b, c, d above at end of life run.		0.5% (5)

FIG.1

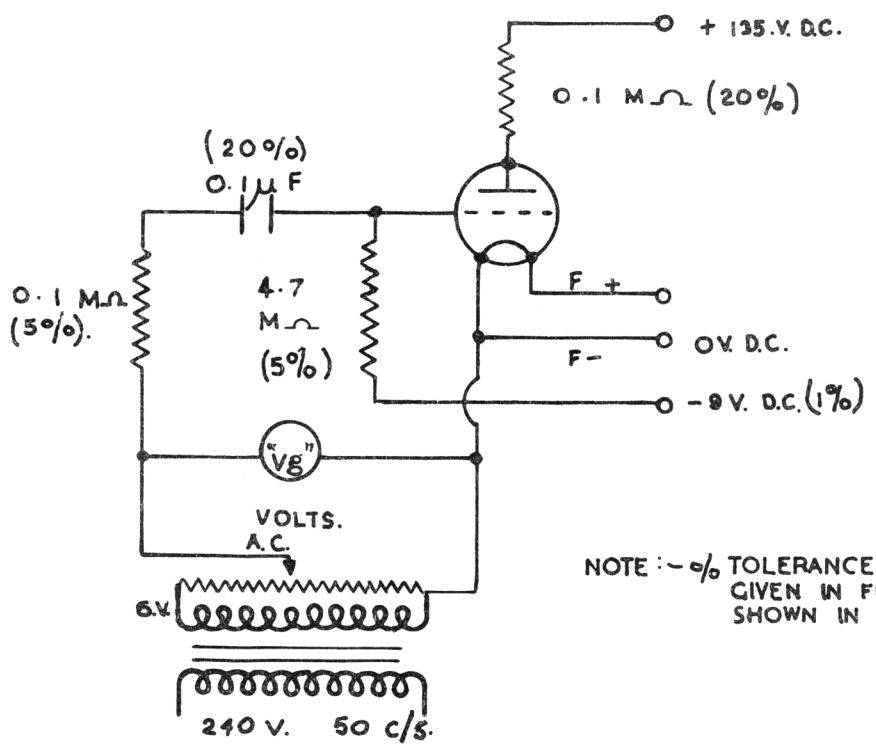


DIMENSIONS (MM)		
	MIN	MAX
A	—	50·0
B	14·5	16·0
C	—	16·0
L	51·0	—

LEADS MUST NOT BE LESS THAN 1MM APART (BETWEEN CENTRES) AT POINT WHERE THEY LEAVE PINCH.

CONNECTIONS	
LEAD.	ELECTRODE.
1	ANODE.
2	FIL. +
3	FIL. −
4	GRID.

FIG. 2.



NOTE :— % TOLERANCES ON VALUES GIVEN IN FIG. 2. ARE SHOWN IN BRACKETS