ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC

CV1235
(NT58A)

Specification AD/CV1235/Issue 5. Dated 16.1.47. To be read in conjunction with K1001.	SECURITY Specn. Restricted Valve Unclassified

TYPE OF VALVE:- Triode, R.F. amplifier oscillator.

CATHODE:- Directly heated, thoriated tungsten.

ENVELOPE:- Glass, unmetallised.

PROTOTYPE:- TY1-50, DET12.

MARKING

See K1001/4.

RATING			Note
Filament voltage	(V)	7.5	
Filament current	(A)	3.2	
Max. anode voltage	(V)	1250	
Max. anode dissipation	(W)	50	
Amplification factor		10	A
Anode impedance	(Ω)	5000	A
Mutual conductance	(mA/V)	2.0	A
Max. frequency for above ratings	(Mc/s)	100	

CAPACITANCES (pF.) (MAX.)	
Caf	1.0
Cgf	2.5
Cag	3.5

BASE
B4
See K1001/AIV/D5.1.

Pin	Electrode
1	No connection
2	No connection
3	Filament
4	Filament
TC1	Anode
TC2	Grid

TOP CAPS AND DIMENSIONS

See Drawing on page 3.

PACKING

See K1001/7.

NOTE

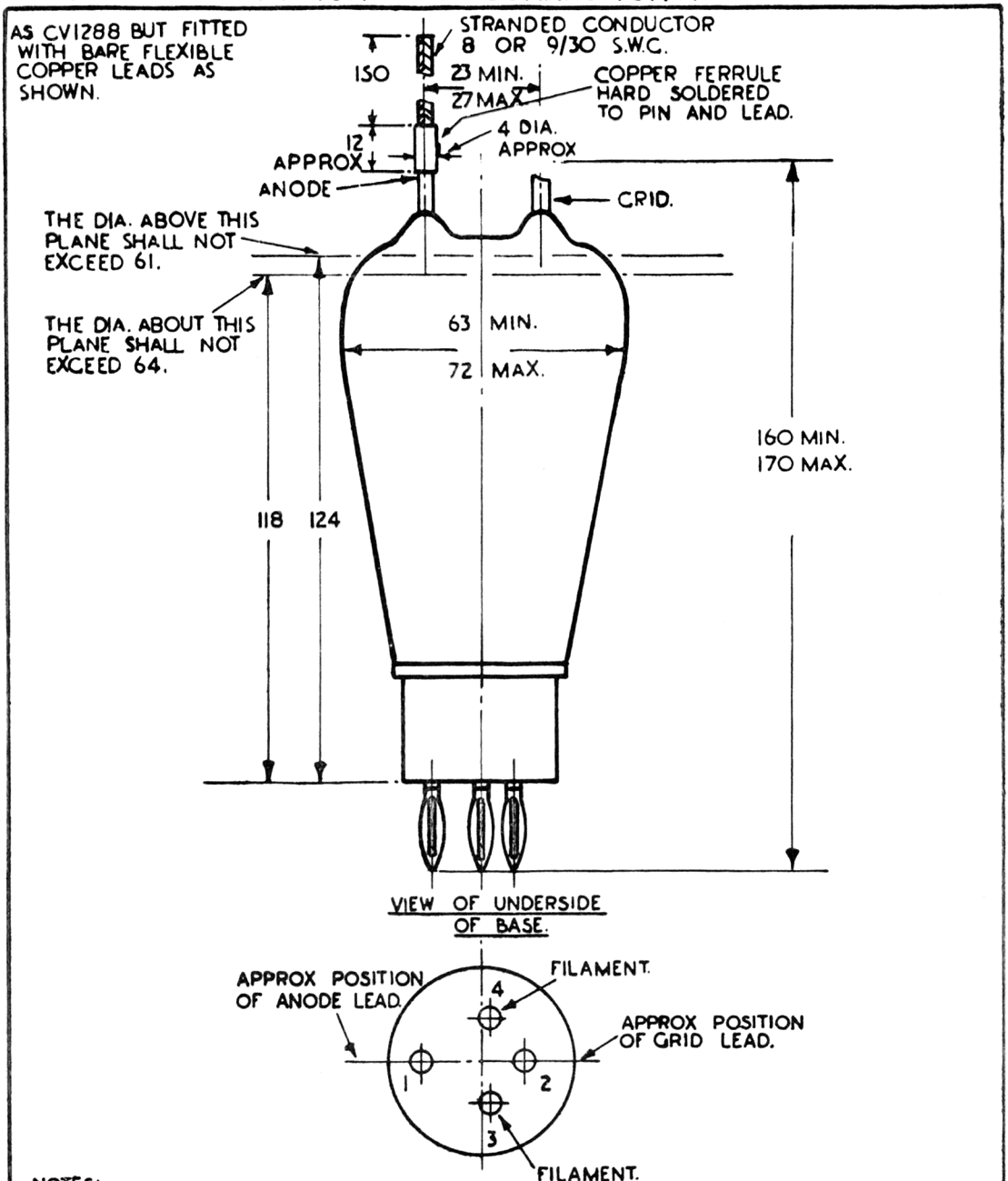
A. Va = 1000 V, Ia = 50 mA.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits Min.	Limits Max.	No. Tested
a	See K1001/AIII.				Capacitances (pF.)			
	Links to H.P.	Links to L.P.	Links to E.					
	TC1	3,4.	1,2,5,6,7, 8,9,10,TC2.		i. Caf	-	1.0	6 per week
	TC2	3,4.	1,2,5,6,7, 8,9,10,TC1.		ii. Cgf	-	2.5	
	TC1	TC2	1,2,3,4,5, 6,7,8,9,10.		iii. Cag	-	3.5	
	Vf (V)	Va (V)	Vg (V)	Ia (mA)				
b	7.5 AC or DC	0	0	0	If (A)	2.8	3.6	100% or S
c	Adjusted AC or DC	1000	0	10	Vf (Emission test) (V)	-	4.0	100%
d	7.5 DC or 7.5 AC	800	Adjusted	60	Vg (V)	-30 -34	-50 -54	100%
e	7.5 AC or DC	800	Adjusted	50	Change in -Vg from value in test 'd' (V)	3	6	100%
f	7.5 AC or DC	1000	Adjusted	50	Change in -Vg from value in test 'e' (V)	18	24	100% or S
g	7.5 AC or DC	1000	Adjusted	50	Reverse Ig after 3 mins. (μA)	-	2.0	100%

DIMENSIONS AND CONNECTIONS.



NOTES:-

1. ANODE AND GRID LEADS TO LIE ON THE SAME SIDE OF THE CENTRE LINE OF THE VALVE AS PINS Nos 1& 2 OF BASE RESPECTIVELY AND IN SAME PLANE.
2. ALL DIMENSIONS IN MILLIMETRES.