

VALVE ELECTRONIC

CV1242
(NT68A)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1242/Issue 3. Dated 11.11.46 To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE</u> : High-vacuum low-power transmitting triode.			<u>MARKING</u>		
<u>CATHODE</u> : Directly heated.			See K1001/4.		
<u>ENVELOPE</u> : Glass.					
<u>RATING</u>		Note	<u>BASE</u> B4		
			See K1001/AIV/D5.1		
Filament Voltage (V)	4.0		Pin	Electrode	
Filament Current (A)	1.0				
Max. Anode Voltage (V)	400		1	Anode	
Max. Anode Dissipation (W)	20		2	Grid	
Amplification Factor	5	A	3	Filament	
Mutual Conductance (mA/V)	3.0	A	4	Filament	
Anode Impedance (ohms)	1700	A			
<u>NOTE</u>			<u>DIMENSIONS</u>		
A. $V_a = 150$ V, $V_g = 0$ V.			See K1001/AI/D1.		
			Dimension	Min.	Max.
			A mm	-	137
			B mm	-	52
			<u>PACKING</u>		
			See K1001/7.		

TESTS.

To be performed in addition to those applicable in K1001.

	Test Conditions.				Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.	
a	See K1001/AIII.				Capacitance Cge (pF)	8.0	9.8	1% (20)
	Pins to H.P.	Pins to L.P.	Pins to E					
	2	1, 3, 4	-					
b	4.0 D.C.	-	-	-	If (A)	1.0	1.2	100%
c	4.0	400	Ad- justed	50	i. -Vg (V)	-	80	100%
	For 10 mins.				ii. -Vg variation after 1st minute (V)	-	5.0	
					iii. -Ig at end of test (μA)	-	5.0	
d	4.0	150	0	x	Ia (mA)	60	90 (to be noted)	100%
e	4.0	150	-5	y	x - y (mA)	13.5	18.5	100%
f	4.0	Ad- justed	-5	x as in test 'd'	Va (V)	170	180	100%
g	4.0	600	-225	-	Ia cut-off (mA)	-	0.5	100%
h	Valve operated in W/T Set, Va supplied = 400V. Freq. (max.) = 20 Mc/s for ten minutes.				Operational test	No defect must appear. Valve must operate satisfact- orily.		1% (20)