

VALVE ELECTRONIC **CV1222**
(NT39, AT75)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1222/Issue 4. Dated 11.6.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE</u> :- Transmitting triode. <u>CATHODE</u> :- Directly heated. <u>ENVELOPE</u> :- Metal Glass for air-cooling. <u>PROTOTYPE</u> :- ACT 6.	<u>MARKING</u> See K1001/4.
	<u>BASE</u> T4 See K1001/AIV/D7.

<u>RATING</u>			Pin	Electrode
Filament Voltage (V)	10.0	Note A A A	1	No connection
Filament Current (A)	1.65		2	Filament
Max. Anode Voltage (V)	1,500		3	Grid
Max. Anode Dissipation (W)	75		4	Filament
Amplification Factor	22		TC	Anode
Mutual Conductance (mA/V)	5.0		<u>TOP CAP</u> See K1001/AI/D5. 2 B.A. with thumb-terminal	
Anode Impedance (ohms)	4,200		<u>DIMENSIONS</u> See K1001/AI/D1.	
Max. Frequency for 75% Anode Rating (Mc/s)	37			

<u>NOTE</u>					
A. See test clauses for conditions.			<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
			A mm	-	220
			B mm	-	53
			<u>PACKING</u> See K1005.		

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	10.0				If (A)	1.45	1.85	100% or S
b		1000	0	10	Vf (V) (Reduced emission test)	-	5.0	100%
	To be done before test 'c'.							
c	10.0	1000		75	Reverse Ig (uA)	-	10	100%
	Maintained for 10 mins. Vg not to require adjustment during last 3 mins.							
d	Test 'b' to be repeated after test 'c'.							100%
e	10.0	1000		75	Vg (V)	-17.5	-24.5	100%
f	10.0	1000		-	gm (mA/V)	4.0	6.25	100%
	Vg made 2 V more negative than value in test 'e'.							
g	10.0	900		75	Amplification Factor	20	25	100%