

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV1240/Issue No. 5. Dated : 2nd June, 1954. To be read in conjunction with K1001.	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
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<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

→ Indicates a change

<u>TYPE OF VALVE:-</u> Transmitting Pentode.		<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated, oxide coated.		See K1001/4.		
<u>ENVELOPE:-</u> Glass.				
<u>PROTOTYPE:-</u> PT15 (Modified).				
<u>RATING</u>		<u>BASE</u>		
Filament Voltage (V)	4.0	T4		
Filament Current (A)	2.45	See K1001/ATV/D7		
Max. Anode Voltage (V)	1250	<u>CONNECTIONS</u>		
Max. Screen Grid Voltage (V)	300	Pin	Electrode	
Max. Continuous Anode Dissipation (W)	30	1	G1	
Mutual Conductance (mA/V)	3.1	2	F	
		3	G2	
		4	F	
		TC	Anode	
		Suppressor grid connected to outer casing of base.		
<u>CAPACITANCES (pF).</u>		<u>TOP GAP</u>		
C _{ae}	14.0	See K1001/AI/D5.4.		
C _{ge}	21.7	<u>DIMENSIONS</u>		
C _{ag}	0.11	See K1001/AI/D1.		
		Dimension	Min.	Max.
		A	185 mm	195 mm
		B	50 mm	53 mm

NOTESA. At $V_a = 1000$, $V_{g2} = 300$, $I_a = 40$ mA.B. With V_{g2} and V_{g3} connected to filament.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested	Note
	Vf (V)	Va (V)	Vg2 (V)	Vg1 (V)	Ia (mA)		Min.	Max.		
→ a	4.0	-	-	-	-	If (A)	2.3	2.6	100%	
→ b	4.0	1000	300	Adjust	40	Reverse Ig after 3 mins. (μA)	-	10	100%	
→ c	4.0	1000	300	"	40	Negative Vg (V)	18	35	100%	
→ d	4.0	1000	300	"	1	Negative Vg (V)	-	60	100%	
e	The valve will be operated in a standard circuit at any frequency up to 20,000 kc/s.					High frequency test	Valve must- operate satisfac- torily.		100%	
→ f	4.0	1000	300	"	40	Ig2 (mA)	-	6.5	100%	
→ g	4.0	1000	300	"	40	gm (mA/V)	2.5	3.7	100%	
	Peak grid swing ± 1.0 V Max.									