

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1409/Issue 2. Dated 17.7.47. To be read in conjunction with K1001.	<u>SECURITY</u> <u>Specn.</u> <u>Valve</u> Restricted Unclassified
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<u>TYPE OF VALVE:-</u> H.F. Pentode.			<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated.			See K1001/4.		
<u>ENVELOPE:-</u> Glass : metallised.					
<u>PROTOTYPE:-</u> SP2.			<u>BASE</u>		
<u>RATING</u>			British 7-pin		
			Note		
Filament Voltage	(V)	2.0	A A A	Pin	Electrode
Filament Current	(A)	0.18		1	M
Max. Anode Voltage	(V)	150		2	G1
Max. Screen Voltage	(V)	150		3	G3
Max. Anode Dissipation	(W)	0.8		4	F
Max. Screen Dissipation	(W)	0.3		5	F
μ		1,200		6	-
g_m	(mA/V)	1.8		7	G2
R_a	(megohms)	0.7		TC	A
				<u>TOP CAP</u>	
			See K1001/AI/D5.1.		
<u>INTERELECTRODE CAPACITIES</u> (pF. approx.)			<u>DIMENSIONS</u>		
			See K1001/AI/D1.		
			<u>Dimension</u>		
Cag1		< 0.01	Min.		
Cac		6.0	Max.		
Cg1c		11.0			
			<u>PACKAGING</u>		
			See K1005.		

NOTES

- A. At $V_a = V_{g2} = 135 \text{ V}$, $V_g = V_{g3} = 0$.
- B. This valve must have substantially no grid current at $V_g = 0$. This characteristic will be checked at Type Approval and, possibly, on samples taken during manufacture, in the apparatus for which the valve is supplied.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg2 (V)	Vg3 (V)	Vg1 (V)		Min.	Max.	
a	2.0	-	-	-	-	If (A)	0.16	0.20	100%
b	2.0	20 AC	20 AC	20 AC	20 AC	Ie (mA)	12	-	100%
c	2.0	135	135	0	0	Ia (mA)	3.05	6.85	100%
d	2.0	135	135	0	-1.75	Ia (mA)	0.6	2.6	100%
e	2.0	135	135	0	-7	Ia (μA)	-	46	100%
	1 megohm in anode circuit								
f	2.0	135	135	0	-1.75	Reverse grid current (μA)	-	0.6	100%