

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV304/Issue 4. Dated 18.2.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

<u>TYPE OF VALVE</u> :- Power output pentode. <u>CATHODE</u> :- Indirectly heated. <u>ENVELOPE</u> :- Glass. <u>PROTOTYPE</u> :- EL22.			<u>MARKING</u>	
			See K1001/4.	
<u>RATING</u>			<u>BASE AND CONNECTIONS</u> <u>B8G (MOD.)</u>	
			See K1001/AIV/D12 except for dimension S max. = 32 mms.	
			Note	
			Pin	Electrode
Heater Voltage (V)	6.3		1	Heater
Heater Current (A)	0.7		2	Anode
Max. Anode Voltage (V)	300		3	Grid 2
Max. Screen Grid Voltage (V)	300		4	No connection
Max. Cathode Current (mA)	60		5	No connection
Mutual Conductance (mA/V)	9.5	A	6	Grid 1
Load Resistance (Ω)	5700	A	7	Cathode, Grid 3, internal shield
Power Output (W)	5.3	A	8	Heater
Max. Anode Dissipation (W)	11		Spigot	No connection
Max. Screen Grid Dissipation (W)	1.7		<u>DIMENSIONS</u>	
			See Drawing, Page 3.	
<u>CAPACITANCES (pF.)</u>				
C _{ge}	11			
C _{ae}	9.5			
C _{ag1}	0.5			
<u>NOTE</u>				
A. Measured with $V_a = V_{g2} = 250$ V. $V_{g1} = -7.0$ V. $I_a = 44$ mA.				

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested	Note
	Vh(V)	Va(V)	Vg2(V)	Vg1(V)		Min.	Max.		
a	6.3	-	-	-	Ih (A)	0.65	0.75	100% or S	
b	6.3	35 (AC)	35 (AC)	35 (AC)	Ie (mA)	112	-	100%	
c	6.3	250	250	-2	Ia (mA)	72	118	100%	
d	6.3	250	250	-7	Ia (mA)	30	58	100%	
e	6.3	250	250	-16	Ia (mA)	-	3.5	100%	
f	6.3	250	250	-6	Reverse Ig (μ A)	-	1.3	100%	1
g	6.3	150 V. between H and O (cathode positive)			Insula- tion(μ A)	-	80	100%	2

NOTES

1. Protective resistance of 0.1 Megohm in series.
2. Protective resistance of 1 Megohm in series.

