

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

Unclass

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<u>TYPE OF VALVE</u> :- Power output pentode.				<u>MARKING</u> See K1001/4.	
<u>CATHODE</u> :- Indirectly heated.					
<u>ENVELOPE</u> :- Glass.					
<u>PROTOTYPE</u> :- EL22.					
<u>RATING</u>				<u>BASE AND CONNECTIONS</u> <u>B8G (MOD.)</u> See K1001/AIV/D12 except for dimension S max. = 32 mms.	
				<u>Note</u>	
				<u>Pin</u>	
				<u>Electrode</u>	
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				6 Grid 1	
Load Resistance (Ω) 5700				7 Cathode, Grid 3, internal shield	
Power Output (W) 5.3				8 Heater	
Max. Anode Dissipation (W) 11				Spigot No connection	
Max. Screen Grid Dissipation (W) 1.7					
<u>CAPACITANCES (pF.)</u>				<u>DIMENSIONS</u> See Drawing, Page 3.	
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 C (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.

