

ADMIRALTY SIGNAL ESTABLISHMENT

(NR77)

Specification AD/CV1286/Issue 2 Dated 20.10.45. To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

<u>TYPE OF VALVE:-</u> Output Pentode			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4.		
<u>ENVELOPE:-</u> Clear bulb					
<u>PROTOTYPE:-</u> EL35.					
<u>RATING</u>			<u>BASE</u>		
			Note American Octal		
Heater Voltage (V)	6.3	A	Pin	Connection	
Heater Current (A)	1.35		1	No connection	
Maximum Anode Voltage (V)	250		2	Heater	
Maximum Screen Voltage (V)	250		3	Anode	
Maximum Anode Dissipation (watts)	18		4	Screen Grid	
Maximum Screen Dissipation (watts)	2.5		5	Control Grid	
Mutual Conductance (mA/V)	5.5		6	Omitted	
			7	Heater	
		8	Cathode and Suppressor Grid.		
<u>NOTES</u>			<u>DIMENSIONS</u>		
A. At $V_a = 250$ V, $V_{g2} = 250$ V, $I_a = 72$ mA.			See K1001/AI/D1.		
			Dimension	Min.	Max.
			A mm	-	135
		B mm	-	53	

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
	V _f (V)	V _{g1} (V)	V _{g2} (V)	V _a (V)		Min.	Max.	
a	6.3	-	-	-	H/K Leakage (μ A)	-	28	100%
	4.5 V Applied through 1.0 megohm in series, Cathode positive							
	6.3	-	-	-	Inter-electrode insulation (μ A)	-	7.5	100%
	250 V Applied through 10 megohms in series.							
c	6.3	-	-	-	I _f (amps)	1.2	1.5	1%
d	6.3	-40	250	250	I _a (i) (mA)	-	4.0	100%
	6.3	-20	250	250	I _a (ii) (mA)	35	61	100%
	6.3	-10	250	250	I _a (iii) (mA)	77	123	100%
e	6.3	-15	250	250	-I _{g1} (μ A)	-	3.0	100%
	0.1 megohm in series with grid supply.							
f	6.3	70 A.C.	70 A.C.	70 A.C.	Emission (mA)	150	-	100%