

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1280 Issue No.3. Dated 11/6/47. To be read in conjunction with K1001.	<u>SECURITY</u> Specn. Valve. Restricted Unclassified	
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<u>TYPE OF VALVE:-</u> Variable Mu Heptode Mixer.			<u>MARKING</u> See K1001/4.		
<u>CATHODE:-</u> Indirectly heated.			<u>BASE</u> IO See K1001/AIV/D2.		
<u>ENVELOPE:-</u> Glass - unmetallised.					
<u>PROTOTYPE:-</u> X64.					
<u>RATING</u>			Pin	Electrode	
Heater Voltage	(V)	6.3	1	No connection.	
Heater Current	(A)	0.3	2	Heater.	
Max. Anode Voltage	(V)	250	3	Anode.	
Max. Screen Voltage	(V)	150	4	Screen grid (G2, G4).	
<u>Operating Conditions</u>			5	Osc. grid (G3).	
Anode Voltage	(V)	250	6	Pin omitted.	
Screen Voltage	(V)	150	7	Heater.	
Control grid voltage	(V)	-6	8	Cathode and	
Mixer grid voltage	(V)	15 D.C.		suppressor (G5).	
Peak Oscillator Voltage	(V)	18	TC	Control grid (G1).	
Total Cathode Current					
(average)	(mA)	12	<u>TOP CAP</u>		
Average Conversion			See K1001/AI/D5.2.		
Conductance	(μmhos)	310	<u>DIMENSIONS</u>		
Conversion Impedance	(MΩ)	1.0	See K1001/AI/D1.		
<u>CAPACITANCES (pF).</u>			Dimension	Min.	Max.
Cg1-g3		0.26	A mm	-	114
Cg1-a		0.17	B mm	-	39
Cg1-all		6.0			
Cg3-all		11.25	<u>PACKING</u>		
Ca-all		8.5	See K1001/7.		
Cg3-a		1.0			

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions						Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg1 (V)	Vg2 (V)	Vg3 (V)	Vg4 (V)		Min.	Max.		
a	6.3						Ih (A)	0.27	0.33	100% or S	
b	6.3	250	-6	150	-15	150	Ic (mA)	8.9	16.1	100%	1
c	6.3	250	-6	150	-15	150	Conversion con- ductance ($\mu\text{A/V}$)	200	420	100%	1
d	6.3	250	-6	150	-15	150	Reverse Ig1 (μA)	-	1.0	100%	1
e	6.3	250	-45	150	-15	150	Ia tail (mA)	-	0.75	100%	1

NOTES

1. 18 V peak A.C. superimposed on Vg3.