MINISTRY OF SUPPLY (S.R.D.E.)

VALVE ELECTRONIC **CV1320** (ARP2)

Specification: MOS/CV1320/Issue 4 Dated:- 19.6.46 To be read in conjunction with K1001.	SECURITY Specification: Restricted	Valve: Restricted

→ indicates a change

TYPE OF VALVE:- H.F. Pentode CATHODE:- Directly heated ENVELOPE:- Glass, metallised PROTOTYPE:- SP.2.	MARKING See K1001/4

RATING		Note
Filament Voltage (V)	2.0	
Filament Current (A)	0.18	
Max. Anode Voltage	150	
Max. Screen Voltage	150	
Mutual Conductance (mA/V)	1.7	A
Anode Impedance (MΩ)	0.4	A
CAPACITANCES (pF) (Max.)		
Cag	0.01	
Cae	7.5	
Cge	12.5	

BASE B7

Pin	Electrode
1	Metallising
2	Control Grid
3	Suppressor Grid
4	Filament
5	Filament
6	No connection
7	Screen Grid
T.C.	Anode

TOP CAP
See K1001/AI/D5.1

DIMENSIONS
See K1001/AI/D1.

Dimension	Min.	Max.
A mm	125	132
L mm	109	118
B mm	43	47

NOTES

A. Measured at Va = 150, Vg2 = 150, Vg1 = 0.

This valve type is obsolete and this specification is for record purposes only.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits Min.	Limits Max.	No. tested
a	Instead of test 5.2 in K1001 the following test will be applied. Insulation. With Vf = 2.0 V A.C. and test voltage = 135 volts the leakage current shall be less than 1.9 microamps. **(Note 1)**								100%
b	See K1001/AIII.					CAPACITANCES (pF)			
	Links to H.P.		Links to L.P.		Links to E.				
	TC1		2		1,3,4,5,6, 7,8,9,10, TC2.	(i) Cag	-	0.01	1% (20)
	TC1		1,3,4,5, 6,7.		2,8,9,10, TC2.	(ii) Cae	-	7.0	
	2		1,3,4,5, 6,7.		8,9,10, TC1,TC2.	(iii) Cge	-	12.0	
	Vf	Va	Vg3	Vg2	Vg1				
c	2.0					If (A)	0.18	0.22	100%
d	2.0 AC	20 AC	20 AC	20 AC	20 AC	Ie (mA)	12	-	100%
e	2.0 AC	135	0	135	0	Ia (mA)	3.05	6.85	100%
f	2.0 AC	135	0	135	-1.75	Ia (mA)	0.6	2.6	100%
g	2.0 AC	135	0	135	-7	Ia (uA) (Note 2)	-	45	100%
h	2.0	135	0	135	-1.75	Rev. Ig (uA)	0.6	-	100%

NOTES

1. Protective resistance 10 megohms used with 10 microammeter.
2. 1 Megohm in anode circuit.