

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

Specification MOS/CV1321/4
Dated 7.8.45.
To be read in conjunction with K1001.

SECURITY
Specification Valve
Restricted Restricted

→ Indicates a change.

<u>TYPE OF VALVE</u> : Variable - mu H.F. Pentode.		<u>MARKING</u>	
<u>CATHODE</u> : Indirectly heated.		In addition to that	
<u>ENVELOPE</u> : Glass - unmetallised.		in K1001/4.	
<u>COMMERCIAL PROTOTYPE</u> : 9D2.		None.	
<u>RATING</u>		<u>BASE</u>	
		B7	
		Pin	Electrode
Heater Voltage	13.0	1	No connection
Heater Current (Amps)	0.2	2	Anode
Max. Anode Voltage	250	3	Suppressor Grid
Max. Screen Voltage	125	4	Heater
Mutual Conductance (mA/V)	1.65	5	Heater
Anode Impedance (megohms)	0.6	6	Cathode
Amplification factor	1000	7	Screen Grid
<u>CAPACITANCES</u> (pF)		T.C.	Control Grid
Cag (Max.)	0.025	<u>TOP CAP</u>	
Cae	13.0	See K1001/A1/D5.2	
Cge	4.7	<u>DIMENSIONS</u>	
		See K1001/A1/D1	
		Dimension	Min. Max.
		A mm.	108 117
		B mm.	- 40
		C mm.	- 35
<u>NOTE</u> : A. Measured at $V_a = 250V$, $V_{g2} = 125V$, $V_{g1} = 3V$.			

CV1321/4/i.

TESTS

To be performed in addition to those applicable in K1001.

Clause	<u>Test Conditions</u>					Test	Limits		No. Tested
							Min.	Max.	
(a)	See K1001/A3					Capacitances (pF)			
	Links to HP.	Links to LP.	Links to E.						
	With Valve screened					Cag	-	0.025	Type approval
	2	1,3,4,5, 6,7.	8,9,10 TC1,TC2			Cae	11.5	14.5	6 per week
	TC1	1,3,4,5, 6,7.	2,8,9,10 TC2			Cge	4.2	5.2	
(b)	Vh	Va	Vg2	Vg1	Vg3	Ih (A)	0.18	0.22	100% or S
	13.0	-	-	-	-				
(c)	13.0	250	125	-3	0	Ia (mA)	6.0	13.0	100%
(d)	13.0	250	125	-3	0	Ig2 (mA)	1.9	3.3	100% or S
(e)	13.0	250	125	-3	0	gm (mA/V)	1.3	2.0	100%
	Peak grid swing + 0.5 max.								
(f)	13.0	250	125	-3	0	Reverse Ig (μ A)	-	2.0	100%
(g)	13.0	250	125	-30	0	Tail Ia (mA)	-	1.0	100%
(h)	13.0	30	30	30	30	Ie (mA)	50	-	100%