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

VALVE ELECTRONIC CV 1331
(ARP 12)

Specification MOS/CV1331/6 Dated : 25.9.45. To be read in conjunction with K1001.	SECURITY Specification Restricted Valve Restricted

→ Indicates a change.

TYPE OF VALVE : Variable μ H.F. Pentode
CATHODE : Directly heated
ENVELOPE : Metallised
COMMERCIAL PROTOTYPE : Mazda VP23

MARKING

As in K1001/4

RATING		Note
Filament Voltage	2.0	
Filament Current (amps)	0.05	
Max. Anode Voltage	150	
Max. Screen Voltage	150	
Anode Current (mA)	3.15	A
Mutual Conductance (mA/V)	1.1	A
CAPACITANCES (pF)		
Cag	0.01	
Cae	10.0	
Cge	8.0	

BASE
M.O. 6-pin

Pin	Electrode
1	Filament - ve
2	Pin omitted
3	Anode
4	Screen Grid
5	Suppressor Grid
6	Metallising
7	Pin omitted
8	Filament + ve
T.C.	Control Grid

TOP CAP

See K1001/A1/D5.1

NOTES

A. Measured at Va = 120 volts
Vg2 = 60 "
Vg1 = 0 "

DIMENSIONS
See K1001/A1/D1

Dimension	Min.	Max.
A mm	88	96
B mm	-	33

CV1331

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions					Test	Limits Min.	Limits Max.	No. Tested
	See K1001/AIII					Capacitances (pF)			
a	Links to H.P.		Links to L.P.		Links to E.				
	3		TC		1,2,4,5,6,7,8,9,10. TC2.	Cag	-	0.01	T.A.
	3		1,4,5,6,8.		2,7,9,10, TC1, TC2.	Cae	9.0	11.0	6
	TC1		1,4,5,6,8.		2,3,7,9,10,TC2	Cge	7.0	9.0	per week
	Vf	Va	Vg2	Vg1	Vg3				
b	2.0	-	-	-	-	If (amps)	0.047	0.057	100% or S
c	2.0	120	60	0	0	Ia (mA)	2.1	4.2	100%
d	2.0	120	60	0	0	Ig2 (mA)	0.45	1.5	100%
e	2.0	120	60	0 to -1	0	gm (mA/V)	0.9	1.35	100%
f	2.0	120	60	-1.5	0	Rev. Ig (µA)	-	0.5	100%
g	2.0	120	60	-8	0	Ia (µA)	8	100	100%
h	2.0	120	60	0	Read	Vg3 (adjusted so that Ia is 50% of that obtained in clause c)	-10	-25	0.1% (4)