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

VALVE ELECTRONIC CV1900

(6D6)

Specification MOS/CV1900/Issue 4 Dated:- 3.9.46 To be read in conjunction with K1001	SECURITY Specification: Restricted Valve: Unclassified

→ indicates a change

TYPE OF VALVE:- Variable mu H.F. Pentode
CATHODE:- Indirectly heated
ENVELOPE:- Glass - unmetallised
PROTOTYPE:- 6D6

MARKING

See K1001/4
Additional marking:- 6D6

RATING			Note
Heater voltage	(V)	6.3	
Heater circuit	(A)	0.3	
Max. anode voltage	(V)	250	
Max. screen voltage	(V)	100	
Mutual conductance	(mA/V)	1.6	A
CAPACITANCES (pF)			
Cag (max.)		0.01	
Cae		6.5	
Cge		4.75	

BASE
UBS6

Pin	Electrode
1	Heater
2	Anode
3	Screen grid
4	Suppressor grid
5	Cathode
6	Heater
TC	Control grid

TOP CAP

See K1001/AI/D5.1

NOTES

A. Measured at $V_a = 250$, $V_{g2} = 100$, $V_{g3} = -3$.

DIMENSIONS

See K1001/AI/D1

Dimension	Min.	Max.
A mm	119	126
B mm	-	40

CV1900

TESTS

To be performed in addition to those applicable in K1001

	Test conditions					Test	Limits Min.	Limits Max.	No. tested
a	See K1001/AIII					Capacitances (pF)			
	Links to H.P.		Links to L.P.		Links to E.				
	2		TC_1		1,3,4,5,6, 7,8,9,10, TC_2	(i) Cag	-	0.01	T.A.
	2		1,3,4,5, 6		7,8,9,10, TC_1, TC_2	(ii) Cas	5.5	7.5	6 per week
	TC_1		1,3,4,5, 6		2,7,8,9, 10, TC_2	(iii) Cgs	4.0	5.5	
	Vh	Va	Vg_2	Vg_1	Vg_3				
b	6.3	-	-	-	-	Ih (A)	0.27	0.33	100% or 8
c	6.3	250	100	-3	0	Ia (mA)	5.8	10.4	100%
d	6.3	250	100	-3	0	Ig_2 (mA)	0.1	3.2	100%
e	6.3	250	100	-3	0	gm (mA/V)	1.35	1.9	100%
f	6.3	250	100	-3	0	Rev Ig_1 (uA)	-	1.0	100%
g	6.3	250	100	-30	0	Ia (mA)	-	1.0	100%