

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

Specification MOS/CV1342/Issue 4 Dated 29.4.46 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:-</u> Q.P.P. output pentode	<u>MARKING</u>  See K1001/4
<u>CATHODE:-</u> Directly heated	
<u>ENVELOPE:-</u> Glass-unmetallised	
<u>PROTOTYPE:-</u> QP.25	

<u>RATING</u>			Note	<u>BASE</u> M O	
				Pin	Electrode
Filament voltage	(V)	2.0		1	Filament -ve
Filament current	(A)	0.2		2	Pin omitted
Max. anode voltage	(V)	120		3	Anode (a)
Max. screen voltage	(V)	120		4	Screen grid (a) & (b)
Mutual conductance	(mA/V)	3.0	A	5	Control grid (a)
Anode-to-anode load	(ohms)	17000	B	6	Control grid (b)
Power output	(watts)	0.75	B	7	Anode (b)
Total quiescent current		4.6	B	8	Filament +ve

<u>NOTES</u> A. Measured at $V_a = V_{g2} = 100, V_{g1} = 0$ B. With $V_a = V_{g2} = 100, V_{g1} = 7.7,$ input swing per grid 5.45 volts (R.M.S.)	<u>DIMENSIONS</u>		
	See K1001/AI/D1		
	Dimension	Min.	Max.
A mm	81	90	
B mm	-	33	

## TESTS

To be performed in addition to those applicable in K1001

	Test conditions						Test	Limits		No. tested
	Vf	Va(a)	Va(b)	Vg2	Vg1(a)	Vg1(b)		Min.	Max.	
a	2.0	-	-	-	-	-	If (A)	0.18	0.22	100% or S
b	2.0	100	-	100	0	-20	Ia (a) (mA)	15	-	100%
c	2.0	-	100	100	-20	0	Ia (b) (mA)	15	-	100%
d	2.0	100	-	100	-3	-20	Rev Ig(a)(uA)	-	1.0	100%
e	2.0	-	100	100	-20	-3	Rev Ig(b)(uA)	-	1.0	100%
f	2.0	100	-	100	-15	-20	Ia (a) (mA)	-	0.05	100%
g	2.0	-	100	100	-20	-15	Ia (b) (mA)	-	0.05	100%
h	Vf 2.0	Va 100	Vg2 100	Ia + Ig2 4.75		Vg1 Read	Vg1 (V) (Note 1)	-6.4	-8.8	100%
j	Vg 2.0	Va(a) 100	Va(b) 100	Vg2 100	Ia(a) Ia(b) Read	Vg1 As in clause h	Ia difference between each section (mA) (Note 2)	-	1.1	100%

### NOTES

1. Anode of each section and control grids of each section connected together.
2. Control grids of each section connected together.