

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

Specification MOS/CV1342/Issue 4 Dated 29.4.46 To be read in conjunction with K1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification Restricted</td><td>Valve Restricted</td></tr> </table>	SECURITY		Specification Restricted	Valve Restricted
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Specification Restricted	Valve Restricted				

—→ indicates a change

<u>TYPE OF VALVE:-</u> Q.P.P. output pentode			<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated			See K1001/4		
<u>ENVELOPE:-</u> Glass-unmetallised					
<u>PROTOTYPE:-</u> QP.25					
<u>RATING</u>			<u>BASE</u> M O		
			Note		
Filament voltage	(V)	2.0	A B B	Pin	Electrode
Filament current	(A)	0.2		1	Filament -ve
Max. anode voltage	(V)	120		2	Pin omitted
Max. screen voltage	(V)	120		3	Anode (a)
Mutual conductance	(mA/V)	3.0		4	Screen grid (a) & (b)
Anode-to-anode load	(ohms)	17000		5	Control grid (a)
Power output	(watts)	0.75		6	Control grid (b)
Total quiescent current		4.6		7	Anode (b)
				8	Filament +ve
<u>NOTES</u>			<u>DIMENSIONS</u>		
A. Measured at $V_a = V_{g2} = 100, V_{g1} = 0$			See K1001/AI/D1		
B. With $V_a = V_{g2} = 100, V_{g1} = 7.7$, input swing per grid 5.45 volts (R.M.S.)					
			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
								Min.	Max.	
a	Vf	Va(a)	Va(b)	Vg2	Vgl(a)	Vgl(b)	If (A)	0.18	0.22	100% or S
	2.0	-	-	-	-	-				
b	2.0	100	-	100	0	-20	Ia (a) (mA)	15	-	100%
c	2.0	-	100	100	-20	0	I (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	Va	Vg2	Ia + Ig2		Vgl	Vgl (V) (Note 1)	-6.4	-8.8	100%
	2.0	100	100	4.75		Read				
j	Vg	Va(a)	Va(b)	Vg2	Ia(a) Ia(b)	Vgl	Ia difference between each sec- tion (mA) (Note 2)	-	1.1	100%
	2.0	100	100	100	Read	As in clause h				

NOTES

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