

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

Specification: MOS/CV9/Issue 4	<u>SECURITY</u>	
Dated: 28/11/46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K1001	<u>Restricted</u>	<u>Unclassified</u>

→ indicates a change under

<u>TYPE OF VALVE:</u> Power Pentode			<u>MARKING</u>	
<u>CATHODE:</u> Indirectly heated			See K1001/4	
<u>ENVELOPE:</u> Glass - unmetallised				
<u>PROTOTYPE:</u> AL60				
<u>RATING</u>		Note	<u>BASE</u> B7	
Heater voltage	(V)	4.0	Pin	Electrode
Heater current	(A)	2.1	1	Metallising
Max. anode voltage	(V)	800	2	Control Grid
Max. anode dissipation	(W)	18	3	Suppressor grid
Max. screen voltage	(V)	275	4	Heater
Max. screen dissipation	(W)	3	5	Heater
Mutual conductance	(mA/V)	14.5	6	Cathode
Anode impedance	(ohms)	20,000	7	Screen grid
Anode current	(mA)	72	A	Anode
Screen current	(mA)	8	A	
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u>	
			See K1001/AL/D5.1	
Cag (max.)		0.75	<u>DIMENSIONS</u> See K1001/AL/D1	
Cae		9.0		
Cge		17.7		
<u>NOTES</u>			<u>Dimension</u>	
A. Measured at $V_a = 250$, $V_{g2} = 250$, $V_{g1} = -7$			<u>Min.</u>	<u>Max.</u>
			A mm	155
			B mm	52

TESTS

To be performed in addition to those applicable in K1001

	Test conditions					Test	Limits		No: tested
							Min.	Max.	
a	See K1001/AIII					Capacitances (pF)			6 per week
	Links to H.P.	Links to L.P.	Links to E		(i) Cag				
	TC ₁	2	1,3,4,5, 6,7,8,9, 10, TC ₂						
	TC ₁	1,3,4,5, 6,7	2,8,9,10, TC ₂			(ii) Cae			
	2	1,3,4,5, 6,7	8,9,10, TC ₁ ,TC ₂		(iii) Cge	15.9	19.5		
b	Vh	Va	Vg ₂	Vg ₁	Vg ₃	I _h (A)	1.7	2.5	1% (5)
c	4.0	250	250	-14.5	0	I _a (mA)	-	11	100%
d	4.0	250	250	-7	0	I _a (mA)	54	93	100%
e	4.0	250	250	-7	0	I _{g2} (mA)	-	11	100%
f	4.0	250	250	-7 ±0.5V	0	g _m (mA/V)	12	-	100%
g	4.0	250	250	-7	0	Rev. I _g (μA)	-	1.5	100%
h	4.0	35 AC	35 AC	35 AC	35 AC	I _e (mA)	130	-	100%