

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

Specification: MOS/CV9/Issue 4

Dated: 28/11/46

To be read in conjunction with K100L

SECURITYSpecificationValve

Restricted

Unclassified ←

→ indicates a change

<u>TYPE OF VALVE:</u> Power Pentode				<u>MARKING</u>		
<u>CATHODE:</u> Indirectly heated				See K100L/4 ←		
<u>ENVELOPE:</u> Glass - unmetallised						
<u>PROTOTYPE:</u> AL60						
<u>RATING</u>				Note	<u>BASE</u> B7	
Heater voltage	(V)	4.0	A A A	<u>Pin</u>	<u>Electrode</u>	
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		TC	Anode	
Screen current	(mA)	8			<u>TOP CAP</u>	
<u>CAPACITANCES (pF)</u>				See K100L/AI/D5.1		
Cag (max.)		0.75		<u>DIMENSIONS</u>		
Cae		9.0		See K100L/AI/D1		
Cge		17.7				
<u>NOTES</u>				<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
A. Measured at $V_a = 250$, $V_{g2} = 250$, $V_{g1} = -7$				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	-	0.75	
	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						
		2	1,3,4,5, 6,7, 8,9,10, TC ₁ ,TC ₂			(iii) Cge	15.9	19.5	
b	Vh	Va	Vg2	Vg1	Vg3	Ih (A)	1.7	2.5	1% (5)
	4.0	-	-	-	-				
e	4.0	250	250	-14.5	0	Ia (mA)	-	11	100%
d	4.0	250	250	-7	0	Ia (mA)	54	93	100%
e	4.0	250	250	-7	0	Ig ₂ (mA)	-	11	100%
f	4.0	250	250	-7 +0.5V	0	gm (mA/V)	12	-	100%
g	4.0	250	250	-7	0	Rev. Ig (mA)	-	1.5	100%
h		35	35	35	35	Ie (mA)	130	-	100%
	4.0	AC	AC	AC	AC				