

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

Specification MOS/CV585/Issue 4	<u>SECURITY</u>	
Dated 8.3.46	<u>Specification</u>	<u>Valve</u>
To be used in conjunction with K1001	Restricted	Restricted

—→ indicates a change

<u>TYPE OF VALVE:-</u> H.F. Pentode			<u>MARKING</u>				
<u>CATHODE:-</u> Indirectly heated			See K1001/4				
<u>ENVELOPE:-</u> Glass-unmetallised			Additional marking:-				
<u>PROTOTYPE:-</u> 6C6			6C6				
<u>RATING</u>			<u>BASE</u>				
			USS6				
			<u>Note</u>				
Heater voltage (V)			6.3	A	<u>Pin</u>	<u>Electrode</u>	
Heater current (A)			0.3		1	Heater	
Max. anode voltage (V)			250		2	Anode	
Max. screen voltage (V)			100		3	Screen Grid	
Mutual conductance (mA/V)			1.25		4	Suppressor Grid	
					5	Cathode	
<u>CAPACITANCES (pF)</u>				6	Heater		
Cag (max.)			0.01		T.C	Control Grid	
Cae			6.5				
Cge			5.0				
<u>NOTES</u>					<u>TOP CAP</u>		
A. Measured at $V_a = 250$					See K1001/AI/D5.1		
$V_{g2} = 100$							
$V_{g1} = -3$					<u>DIMENSIONS</u>		
					See K1001/AI/D1		
					<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
					A mm	119	126
					B mm	-	40

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions					Test	Limits		No. Tested
							Min.	Max.	
a	See K1001/AIII					<u>CAPACITANCES</u>			
	Links to H.P.	Links to L.P.	Links to E			(pF)			
	2	TC1	1,3,4,5,6, 7,8,9,10, TC2.			(i) Cag	-	0.01	T.A
	2	1,3,4,5, 6.	7,8,9,10, TC1,TC2.			(ii) Cae	5.5	7.5	6 per week
	TC1	1,3,4,5, 6.	2,7,8,9, 10,TC2			(iii) Cge	4.0	6.0	
b	Vh	Va	Vg2	Vg1	Vg3	Ih (A)	0.27	0.33	100% or S
	6.3	-	-	-	-				
c	6.3	250	100	-3	0	Ia (mA)	1.4	3.3	100%
d	6.3	250	100	-3	0	Ig2 (mA)	-	1.0	100%
e	6.3	250	100	-3	0	gm (mA/V)	1.0	1.4	100%
f	6.3	250	100	-3	0	Rev. Ig1 (uA)	-	1.0	100%
g	6.3	250	100	-7.5	0	Ia (mA)	-	0.1	100%