

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

Specification MOS/CV1891/Issue 4 Dated 2.5.46 To be used in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:-</u> Double diode pentode				<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated				See K1001/4		
<u>ENVELOPE:-</u> Glass-unmetallised				Additional marking:- 6B7		
<u>PROTOTYPE:-</u> 6B7						
<u>RATING</u>			Note	<u>BASE</u>		
				USS7		
Heater voltage	(V)	6.3	A	Pin	Electrode	
Heater current	(A)	0.3		1	Heater	
Max. anode voltage	(V)	250		2	Anode	
Max. screen voltage	(V)	125		3	Screen grid	
Mutual conductance	(mA/V)	1.1		4	Diode 2	
				5	Diode 1	
<u>CAPACITANCES (pF)</u>				6	Cathode	
C _{ag}	(max)	0.007		7	Heater	
C _{ge}		3.6		T.C	Control grid	
C _{ae}		9.5				
<u>NOTES</u> A. Measured at V _a = 250 V _{g2} = 100 V _{g1} = -3				<u>TOP CAP</u>		
				See K1001/AI/D5.1		
				<u>DIMENSIONS</u>		
				See K1001/AI/D1		
				Dimension	Min.	Max.
				A mm	108	115
				B mm	-	4C

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)			
	Links to H.P.	Links to L.P.	Links to E					
	2	TC1	1,3,4,5, 6,7,8, 9, 10, TC2		(i) Cag	-	0.007	T.A.
	2	1,3,4,5, 6,7	8,9,10, TC1, TC2		(ii) Cae	7.6	11.4	6 per week
	TC1	1,3,4,5, 6,7	2,8,9,10, TC2		(iii) Cge	2.8	4.4	
b	Vh	Va	Vg2	Vgl	Ih (A)	0.27	0.33	100% or S
	6.3	-	-	-				
c	6.3	250	125	-3	Ia (mA)	6.3	11.7	100%
d	6.3	250	125	-3	Ig2 (mA)	-	3.2	100%
e	6.3	250	125	-3	gm (mA/V)	0.8	1.4	100%
f	6.3	250	125	-3	Rev Igl (uA)	-	1.0	100%
g	6.3	250	125	-15	Ia (mA)	-	0.75	100%
h	6.3	Vd= +10	-	-	Id Note 1 (mA)	0.8	-	100%

NOTES

1. This test shall be applied to both diodes.