

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
Heater current (A)	0.3		1
Max. anode voltage (V)	250		2
Max. screen voltage (V)	125		3
Mutual conductance (mA/V)	1.1		4
			5
<u>CAPACITANCES (pF)</u>			6
Cag (max)	0.007		7
Cge	3.6		T.C
Cae	9.5		
<u>NOTES</u>		<u>TOP CAP</u>	
A. Measured at Va = 250		See K1001/AI/D5.1	
Vg2 = 100			
Vg1 = -3		<u>DIMENSIONS</u>	
		See K1001/AI/D1	
		<u>Dimension</u>	<u>Min.</u>
		A mm	108
		B mm	115
			-
			4C

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 (pF)</u>			
	Links to H.P.	Links to L.P.	Links to E		(i) Cag	-	0.007	T.A.
	2	TC1	1,3,4,5,6,7,8,9,10,TC2					
	2	1,3,4,5,6,7	8,9,10,TC1,TC2					
	TC1	1,3,4,5,6,7	2,8,9,10,TC2		(iii) Cge	2.8	4.4	6 per week
b	Vh	Va	Vg2	Vg1	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%