

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

Specification: MOS/CV1893/Issue 4.
 Dated: 19.6.46
 To be read in conjunction with K1001.

SECURITY

Specification

Valve

Restricted

Restricted

→ indicates a change

<u>TYPE OF VALVE:-</u> Double diode pentode <u>CATHODE:-</u> Indirectly heated <u>ENVELOPE:-</u> Glass-ummatalised <u>PROTOTYPE:-</u> 6B8G			<u>MARKING</u> See K1001/4. Additional marking: 6B8G		
<u>RATING</u>			<u>BASE</u> I O		
Heater voltage (V)	6.3	Note A A	Pin	<u>Electrode</u>	
Heater current (A)	0.3		1	No connection	
Max. anode voltage (V)	300		2	Heater	
Max. screen voltage (V)	125		3	Anode	
Max. anode dissipation (W)	2.25		4	Diode 2	
Max. screen dissipation (W)	0.3		5	Diode 1	
Anode current (mA)	9.0		6	Screen grid	
Mutual conductance (mA/V)	1.1		7	Heater	
<u>CAPACITANCES (pF)</u>			8	Cathode of suppressor grid	
C _{ag} (max.)	0.01		T.C.	Control grid.	
C _{ae}	9.5		<u>TOP CAP</u> See K1001/AI/D5.2.		
C _{ge}	3.6		<u>DIMENSIONS</u> See K1001/AI/D1.		
<u>NOTES</u> A. Measured at V _a = 250. V _{g2} = 125. V _{g1} = -3.			Dimension	Min.	Max.
			A mm	105	114
			B mm	-	40

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) C _{ag}	-	0.01	1% (20)
	3	T.C.1	2,4,5,6, 7,8,9,10, TC2.						
	3	2,4,5,6, 7,8.	TC1, TC2, 9,10.						
TC1	2,4,5,6, 7,8.	3,9,10, TC2.			(ii) C _{ae}	6.7	12.3		
	V _h	V _a	V _{g2}	V _{g1}	V _d	(iii) C _{ge}	2.9	4.3	
b	6.3	-	-	-	-	I _h (A)	0.27	0.33	100% or S.
c	6.3	250	125	-3	-	I _a (mA)	6.3	11.7	100%
d	6.3	250	125	-3	-	I _{g2} (mA)	-	3.2	100%
e	6.3	250	125	-3	-	g _m (mA/V)	0.8	1.4	100%
f	6.3	250	125	-3	-	Rev. I _g (uA)	-	1.0	100%
g	6.3	250	125	-15	-	I _a (mA)	-	0.75	10% (50)
h	6.3	-	-	-	+10	I _d (mA) See Note 1.	0.8	-	100%
<u>NOTES</u>									
1. This test to be applied to both diodes.									