

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

Specification MOS/CV1937/Issue 2 Dated:- 12.1.48 To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

—→ indicates a change

<u>TYPE OF VALVE:-</u> R.F. Pentode				<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated				See K1001/4		
<u>ENVELOPE:-</u> Glass-unmetallised				Additional marking:-		
<u>PROTOTYPE:-</u> 6J7GT				6J7GT		
<u>RATING</u>				<u>BASE</u> See K1001/A1U/D2		
				IO M Dimension (V) applies		
				<u>Note</u>		
Heater volts (V)	6.3			Pin	Electrode	
Heater current (A)	0.3			1	Base sleeve	
Max. anode volts (V)	300			2	Heater	
Max. screen volts (V)	125			3	Anode	
Max. anode dissipation (W)	0.75			4	Screen grid	
Max. screen dissipation (W)	0.1			5	Suppressor grid	
Anode current (mA)	2.0	A		6	Pin omitted	
Screen current (mA)	0.5	A		7	Heater	
Mutual conductance (mA/V)	1.25	A		8	Cathode	
				TC	Control Grid	
<u>CAPACITANCES (pF)</u>				<u>TOP CAP</u>		
Cag (max.)	.005	B		See K1001/A1/D5.2		
Cge	5.0	B				
Cae	12.0	B		<u>DIMENSIONS</u>		
				See K1001/A1/D1		
<u>NOTES</u>				<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
A. At $V_a = 250V$, $V_{g2} = 100V$, $V_{g1} = -3V$, $V_{g3} = 0$				A mm	-	84.3
B. Taken with conventional shield.				B mm	-	33.5

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> (pF)			
	Links to H.P.	Links to L.P.	Links to E.					
	3	TC ₁	1,2,4,5, 6,7,8,9, 10, TC ₂		(i) C _{ag}	-	.005	T.A.
	3	1,2,4, 5,7,8.	6,9,10, TC ₁ TC ₂		(ii) C _{ae}	9.0	15.0	6 per week
	TC ₁	1,2,4, 5,7,8.	3,6,9, 10, TC ₂		(iii) C _{ge}	4.0	6.0	
	V _h	V _a	V _{G2}	V _{G1}				
b	6.3	0	0	0	I _h (A)	0.27	0.33	100% or S
c	6.3	250	100	-3	I _a (mA)	1.3	2.9	100%
d	6.3	250	100	-3	I _{G2} (mA)	-	1.1	100% or S
e	6.3	250	100	-3	g _m (mA/V)	0.9	1.60	100%
f	6.3	250	100	-3	Rev. I _g (μA)	-	1.0	100%
g	6.3	250	100	-8	I _a tail (μA)	-	100	100%