

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> See K1001/4 Additional marking:- 6J7GT		
<u>CATHODE:-</u> Indirectly heated				<u>BASE</u> IO		
<u>ENVELOPE:-</u> Glass-unmetallised						
<u>PROTOTYPE:-</u> 6J7GT				<u>TOP CAP</u> See K1001/AI/D5.2		
<u>RATING</u>						
Note				<u>DIMENSIONS</u> See K1001/AI/D1		
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>DIMENSIONS</u> See K1001/AI/D1		
Cag (max.)		.005	B			
Cge		5.0	B			
Cae		12.0	B	<u>Dimension</u> <u>Min.</u> <u>Max.</u>		
<u>NOTES</u>				A mm - 84.3		
A. At $V_a = 250V$, $V_{g2} = 100V$, $V_{g1} = -3V$, $V_{g3} = 0$				B mm - 33.5		
B. Taken with conventional shield.						

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.					
	3	TC ₁	1,2,4,5, 6,7,8,9, 10, TC ₂					
	3	1,2,4, 5,7,8.	6,9,10, TC ₁ TC ₂					
	TC ₁	1,2,4, 5,7,8.	3,6,9, 10, TC ₂		(i) C _{ag}	-	.005	T.A.
					(ii) C _{ae}	9.0	15.0	6 per week
					(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%