

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

Specification MOS/CV1941/Issue 5 Dated:- 5.9.46 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> Variable - m ^h H.F. pentode			<u>MARKING</u>		
<u>CATHODE :-</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:-</u> Glass - unmetallised			Additional marking :- 6K7G		
<u>PROTOTYPE:-</u> 6K7G					
<u>RATING</u>			<u>BASE</u> IO		
			Note		
Heater volts	6.3		Pin	Electrode	
Nominal heater current (A)	0.3		1	No connection	
Max. anode volts	300		2	Heater	
Max. screen volts	125		3	Anode	
Max. anode dissipation (W)	2.75		4	Screen grid	
Max. screen dissipation (W)	0.35		5	Suppressor grid	
Mutual conductance (mA/V)	1.45	A	6	Pin omitted	
Anode impedance (M)	0.8	A	7	Heater	
Anode current (mA)	7.0	A	8	Cathode	
Screen current (mA)	1.7	A	TC	Control grid	
Grid bias for mutual conductance of 2 uA/V (V)	-42.5	C	<u>TOP CAP</u>		
			See K1001/AI/D5.2		
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
C _{ag}	0.0035	B	See K1001/AI/D1		
C _{ae}	12.0	B			
C _{ge}	5.0	B			
			Dimension		
			Min. Max.		
			A mm	105	114
			B mm	-	40
<u>NOTES</u>					
A. At V _a = 250V, V _{g1} = -3V, V _{g2} = 100V, V _{g3} = 0.					
B. Taken with conventional shield.					
C. At V _a = 250V, V _{g2} = 100V, V _{g3} = 0.					

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}	-	0.007	T.A.					
	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												
b	V _h	V _a	V _{g3}	V _{g2}	V _{g1}	I _h (A)	0.27	0.33	100% or S					
	6.3	0	0	0	0									
	c	6.3	250	0	100					-3	I _a (mA)	4.9	9.5	100%
	d	6.3	250	0	100					-3	I _{g2} (mA)	0.9	2.5	100% or S
	e	6.3	250	0	100					-3	g _m (mA/V)	1.1	1.9	100%
	f	6.3	250	0	100					-3	Rev I _g (uA)	-	1.0	100%
	g	6.3	250	0	100					-30	I _a tail (uA)	50	500	100%