

Specification MOS/CV1345/Issue 5 Dated:- 28.2.57 To be read in conjunction with K1001, BS448 and BS1409	SECURITY	
	Specification unclassified	Valve unclassified

→ indicates a change

TYPE OF VALVE:- Triode-pentode CATHODE:- Directly heated ENVELOPE:- Metallised PROTOTYPE:- TP25				MARKING See K1001/4		
RATING		Note	BASE BS 448/B8-M.O.			
Filament voltage (V)	2.0		Pin	Electrode		
Filament current (A)	0.2		1	Filament		
PENTODE SECTION:			2	No connection		
Max. Anode voltage (V)	150		3	Anode		
Max. screen voltage (V)	150		4	Osc. anode		
Anode current (mA)	2.6	A	5	Osc. grid		
Screen current (mA)	1.9	A	6	Metallising		
Mutual conductance (mA/V)	1.0	A	7	Screen grid		
TRIODE SECTION:			8	Filament		
Max. anode voltage (V)	150		T.C.	Control grid		
Mutual conductance (mA/V)	1.7	B	TOP CAP			
Amplification Factor	18	B	BS448/CT2			
			Dimensions see BS448 Sect 6/1.2			
CAPACITANCES (pF)			DIMENSIONS			
PENTODE SECTION:			See K1001/AI/D1			
Capg1	0.02		Dimension	Min.	Max.	
Cout	8.0		A mm	-	105	
Cin	6.5		B mm	-	33	
TRIODE SECTION:						
Capgt	1.8					
Cout	4.0					
Cin	9.0					
NOTES						
A. Measured at $V_a = 120$, $V_{g2} = 60$, $V_{g1} = 0$.						
B. Measured at $V_a = 100$, $V_g = 0$.						

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>		6 per week		
	Links to H.P.	Links to L.P.	Links to E			<u>PENTODE SECTION:</u>				
	3	TC1	1,2,4,5, 6,7,8,9, 10,TC2			(i) C_{pE1}	-		0.02	
	3	1,2,4,5, 6,7,8,9, 10,TC2.	TC1			(ii) C_{out}	6.0		10.0	
	TC1	1,2,4,5, 6,7,8,9, 10,TC2.	3			(iii) C_{in}	5.0		8.0	
	4	5	1,2,3,6, 7,8,9,10, TC1,TC2.			<u>TRIODE SECTION:</u>				
	4	1,2,3,6, 7,8,9,10, TC1,TC2	5			(iv) C_{cEt}	1.4		2.2	
4	1,2,3,6, 7,8,9,10, TC1,TC2	5			(v) C_{out}	3.0	5.0			
5	1,3,6,7, 8,9,10, TC1,TC2.	4			(vi) C_{in}	6.5	11.5			
b	Vf	Va	Vg2	Vg1	Vg3	If	(A)	0.18	0.22	100%
	2.0	-	-	-	-					
c	2.0	<u>PENTODE SECTION</u>				Ia	(mA)	1.75	3.45	100%
d	2.0	120	60	0	0	Ig2	(mA)	1.2	2.6	100%
e	2.0	120	60	0 to -1	0	gm	(mA/V)	0.75	1.25	100%
f	2.0	120	60	-1	0	Rev. Ig	(uA)	-	1.0	100%
g	2.0	120	120	-13 to -14	0	gm	(uA/V)	20	85	1% (20)
h	<u>TRIODE SECTION</u>					Ia rise	(mA)	4.4	-	100%
	Vf	Va	Ia	Vg						
	2.0	150	-	Adjust for Ia=2mA then change + 4 volts						
j	2.0	150	3.0	Very		u		15	21	5% (20)
k	2.0	150	-	-15		Ia	(mA)	-	0.05	1% (20)