

Specification MOS/CV1345/Issue 5

Dated:- 28.2.57

To be read in conjunction with K1001,
BS448 and BS1409SECURITYSpecification
unclassifiedValve
unclassified

→ indicates a change

<u>TYPE OF VALVE:-</u> Triode-pentode				<u>MARKING</u> See K1001/4		
<u>CATHODE:-</u> Directly heated						
<u>ENVELOPE:-</u> Metallised						
<u>PROTOTYPE:-</u> TP25						
<u>RATING</u>			Note	<u>BASE</u> BS 448/B8-M.O.		
Filament voltage (V)	2.0			Pin	Electrode	
Filament current (A)	0.2			1	Filament	
<u>PENTODE SECTION:</u>				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	
<u>TRIODE SECTION:</u>				8	Filament	
Max. anode voltage (V)	150			T.C.	Control grid	
Mutual conductance (mA/V)	1.7	B		<u>TOP CAP</u> BS448/CT2		
Amplification Factor	18	B		Dimensions see BS448 Sect 6/1.2		
<u>CAPACITANCES (pF)</u>				<u>DIMENSIONS</u> See K1001/AI/D1		
<u>PENTODE SECTION:</u>				Dimension	Min.	Max.
Capg ₁	0.02			A mm	-	105
C _{out}	8.0			B mm	-	33
C _{in}	6.5					
<u>TRIODE SECTION:</u>						
Cap _{gt}	1.8					
C _{out}	4.0					
C _{in}	9.0					
<u>NOTES</u>						
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					CAPACITANCES (pF)			6 per week
	Links to H.P.	Links to L.P.	Links to E		PENTODE SECTION:				
	3	TC1	1,2,4,5, 6,7,8,9, 10,TC2		(i) C_{pg1}	-	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.		TRIODE SECTION: (iv) C_{aEt}	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	PENTODE SECTION 120 60 0 0				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	TRIODE SECTION					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	Vary		u	15	21	5% (20)
k	2.0	150	-	-15		Ia (mA)	-	0.05	1% (20)