

Specification MAP/CV1046/Issue 5 Dated 24.1.49 To be read in conjunction with K1001.		<u>SECURITY</u> Specification      Valve RESTRICTED      UNCLASSIFIED	
→ Indicates a change			
<u>TYPE OF VALVE:</u> Pentode  <u>CATHODE:</u> Directly heated  <u>ENVELOPE:</u> Glass - unmetallised  <u>PROTOTYPE:</u> M. O. V., PT. 25H.		<u>MARKING</u> See K.1001/4.	
		<u>PACKING</u> See K.1005	
<u>RATING</u>		<u>BASE</u> B5	
Filament Voltage (V) 4.0 Filament Current (A) 2.0 Max. Anode Voltage (V) 500 Max. Screen Voltage (V) 400 Max. Anode Dissipation (W) 25 Mutual Conductance (mA/V) 6.5 Anode Impedance ( $\Omega$ ) 28,000 Amplification Factor 180 Max. Operating Frequency (Mc/s) 20	Note  A A A	<u>Pin</u>	<u>Electrode</u> 1 Anode 2 Control grid 3 Filament negative and suppressor grid 4 Filament positive 5 Screen grid
<u>CAPACITANCES (pF)</u> Cae 25 Cge 21 Cag 1.7		<u>DIMENSIONS</u> See K.1001/AI/D1	
		Dimension	Min.      Max.
		A (mm)	150      170
		B (mm)	-      67
<u>NOTE</u>  A: At Va = Vg2 = 400,      Vg1 = -16.			

## TESTS

To be performed in addition to those applicable in K.1001.

Test Conditions		Test		Limits		No. Tested			
				Min.	Max.				
a	See K.1001/5.2.1. Test Voltage 250V. between control grid and filament, 500V. between any other pair of electrodes.	<u>INSULATION</u>	(MA)	150	-	100%			
b	Vf	Va	Vg2	Vg1	Ia(mA)	100% or S			
	4.0	0	0	0	0				
c	4.0	400	400	-	62.5	Vg1 (V)	-14	-20	100%
d	4.0	400	400	-	62.5	Ig2 (mA)	9.0	14.5	100%
e	4.0	400	400	-	62.5	gm (mA/V)	6.0	8.5	100%
f	4.0	400	400	-	62.5	<u>DISSIPATION TEST</u>	-	0.5	100%
						Variation in Vg1 setting after first two minutes. (V)			
g	4.0 reduced to 3.6	400	400	Value found in test (C)	-	Change in Ia (mA)	-	6.5	100%
h	Measured using Adaptor Type 35. Ref. 10A/1333L.					<u>CAPACITANCES</u> (PF)	-	25	17 (20)
	See K.1001/ALII								
	Links to H.P.	Links to L.P.	Links to E						
	1	3,4,5	2,6,7,8 9,10 TC1, TC2						
	2	3,4,5	1,6,7,8 9,10 TC1, TC2						
1	2	3,4,5,6 7,8,9,10 TC1, TC2							
						1. Cae			
						2. Cge			
						3. Cag			