

Specification MAP/CV1083/Issue 5 Dated 4.9.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

—————> Indicates a change

<u>TYPE OF VALVE</u> : H.F. Pentode (variable $\mu$ ) <u>CATHODE</u> : Directly heated <u>ENVELOPE</u> : Glass, metallised <u>PROTOTYPE</u> : 210 VPT, VP21.	<u>MARKING</u> See K1001/4
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<u>RATING</u>	Note	<u>BASE</u> E7																		
Filament Voltage (V) 2.0 Filament Current (A) 0.1 Max. Anode Voltage (V) 150 Max. Screen Voltage (V) 80 Max. Anode Dissipation (W) 1.0 Max. Screen Dissipation (W) 0.3 Mutual Conductance (mA/V) 1.1	A	<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>Metallising</td></tr> <tr><td>2</td><td>Control grid</td></tr> <tr><td>3</td><td>Suppressor grid</td></tr> <tr><td>4</td><td>Filament</td></tr> <tr><td>5</td><td>Filament</td></tr> <tr><td>6</td><td>No connection</td></tr> <tr><td>7</td><td>Screen grid</td></tr> <tr><td>T.C.</td><td>Anode</td></tr> </tbody> </table>	Pin	Electrode	1	Metallising	2	Control grid	3	Suppressor grid	4	Filament	5	Filament	6	No connection	7	Screen grid	T.C.	Anode
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<u>CAPACITANCES (pF)</u> Cag (max.) .006 Cas 11.0 Cgs 8.8		<u>TOP CAP</u> See K1001/AL/D5.1																		

<u>NOTE</u>	<u>DIMENSIONS</u>									
A. At $V_a = 150V.$ , $V_{g2} = 60V.$ , $V_{g1} = 0.$	See K1001/AL/D1									
	<table border="1"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A (mm)</td> <td>-</td> <td>130</td> </tr> <tr> <td>B (mm)</td> <td>-</td> <td>46</td> </tr> </tbody> </table>	Dimension	Min.	Max.	A (mm)	-	130	B (mm)	-	46
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To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
	Vf	Va	Vg3	Vg2	Vg1		Min.	Max.	
a	2.0	0	0	0	0	If (A)	0.09	0.115	100% or S
b	2.0	150	0	60	0	Ia (mA)	1.9	3.9	100%
c	2.0	150	0	60	0	gm (mA/V)	0.9	-	100%
	Peak grid swing $\pm 0.5V.$ , max.								
d	2.0	150	0	60	0	Ig2 (mA)	0.5	1.0	100% or S
e	2.0	150	0	60	-7.0	Ia (mA)	0.01	0.35	100%
f	2.0	150	0	60	-1.0	Reverse Ig ( $\mu A$ )	-	1.0	100%