

Specification MAP/CV1042/Issue 7 Dated 3.10.46. To be read in conjunction with K.1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

—————> Indicates a change

<u>TYPE OF VALVE</u> - LF Triode (Cossor make only)			<u>MARKING</u> See K1001/4														
<u>CATHODE</u> - Directly heated			<u>BASE</u> B4														
<u>ENVELOPE</u> - Glass-Metallised																	
<u>PROTOTYPE</u> - 210 LF			<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">Pin</th> <th style="width: 85%;">Electrode</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Anode</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Control grid</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Filament</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Filament</td> </tr> </tbody> </table>			Pin	Electrode	1	Anode	2	Control grid	3	Filament	4	Filament		
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<u>RATING</u>		Note	<u>DIMENSIONS</u> See K1001/A1/D1.														
Filament Voltage (V)	2.0		<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 20%;">Dimension</th> <th style="width: 10%;">Min.</th> <th style="width: 10%;">Max.</th> </tr> </thead> <tbody> <tr> <td>A (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">104</td> </tr> <tr> <td>B (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">43</td> </tr> <tr> <td>C (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">36</td> </tr> </tbody> </table>			Dimension	Min.	Max.	A (mm)	-	104	B (mm)	-	43	C (mm)	-	36
Dimension	Min.	Max.															
A (mm)	-	104															
B (mm)	-	43															
C (mm)	-	36															
Filament Current (A)	0.1																
Max. Anode Voltage (V)	150																
Max. Anode Dissipation (W)	1.0																
Mutual Conductance (mA/V)	1.1	A															
Amplification Factor	15	A															
<u>NOTE</u>																	
A:- At $V_a = 100$ V, $V_g = 0$ V.																	

# CV1042

## 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) Cag. (Filament Floating)	3.0	4.2	100%
	Links to H.P. 1	Links to L.P. 2	Links to E. 3,4,5, 6,7,8, 9,10, TC1, & TC2				
b	Vf	Va	Vg	If (A)	0.09	0.11	100% or S
	2.0	0	0				
c	2.0	100	0	Ia (mA)	2.8	6.0	100%
d	2.0	100 Peak grid swing ±1 V. max.	0	gm (mA/V)	0.85	1.4	100%
e	2.0	100	-2	Reverse Ig (μA)	-	1.0	100%
f	<u>Noise</u> The valve shall be tested for microphonic noise, see K.1001/5.8.2.						