

Specification MAP/CV1043 Issue 5 Dated 20.1.49. To be read in conjunction with K1001.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>RESTRICTED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	UNCLASSIFIED
SECURITY							
Specification	Valve						
RESTRICTED	UNCLASSIFIED						

→ Indicates a change

<u>TYPE OF VALVE</u> - Variable - mu Penta-grid frequency changer.				<u>MARKING</u> See K1001/4			
<u>CATHODE</u> - Directly Heated.				<u>PACKING</u> See K1005			
<u>ENVELOPE</u> - Glass - Metallised.							
<u>PROTOTYPE</u> - 210PG							
<u>RATING</u>			Note	<u>BASE</u> B7			
Filament Voltage	(V)	2.0	A A	Pin	Electrode		
Filament Current	(A)	0.1		1	Oscillator Anode (G2)		
Max. Anode Voltage	(V)	150		2	Oscillator Grid (G1)		
Max. Screen Voltage	(V)	80		3	Screen Grids (G3, G5)		
Max. Oscillator Anode Voltage	(V)	150		4	Filament - ve		
Conversion Conductance	(mA/V)	0.45		5	Filament + ve		
Average Space Current	(mA)	2.0		6	Metallising		
Heterodyne Voltage	(RMS)	5		7	Anode		
Max. Operating Frequency	(Mc/s)	18.5		T.C.	Control Grid (G4)		
<u>NOTE</u> A:- $V_a = 120$, $V_{g2} = 40$, $V_{g1} = 0$.				<u>TOP CAP</u> See K1001/AI/D5.4.			
				<u>DIMENSIONS</u> See K1001/AI/D1			
				Dimension		Min.	Max.
				A (mm)		-	135
B (mm)		-	46				

To be performed in addition to those applicable in K1001.

	Test Conditions						Test	Limits		No. Tested
	Vf	Va	Vg2	Vg3g5	Vg4	Vg1		Min.	Max.	
a	2.0	0	0	0	0	0	If (A)	0.08	0.12	100% or S
b	2.0	120	120	60	0	0	Ia (mA)	1.8	2.8	100%
c	2.0	120	120	60	0 to -0.5	0	Ia change (mA)	0.35	-	100%
d	2.0	120	120	60	0	0	Ig2 (mA)	1.5	2.5	100%
e	2.0	120	120	60	0	-8	Ia (mA)	-	0.3	100%
f	2.0	120	120	60	-8	0	Ia (mA)	-	0.3	100%
g	2.0	120	120	60	-1	0	Reverse Ig4 (μ A)	-	1.0	100%