

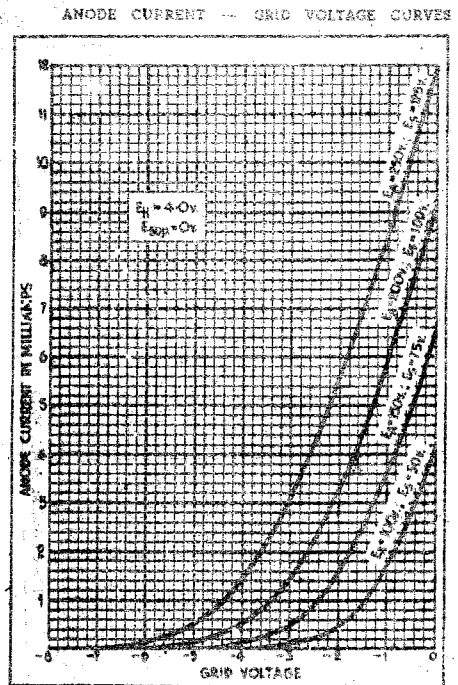
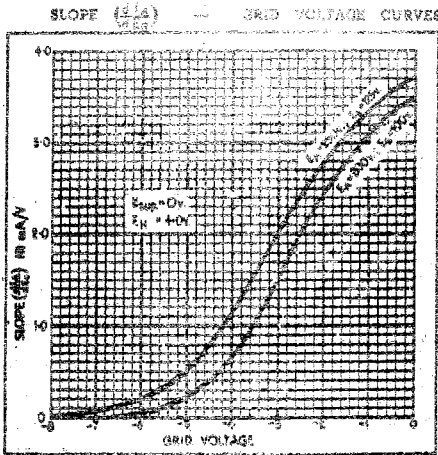
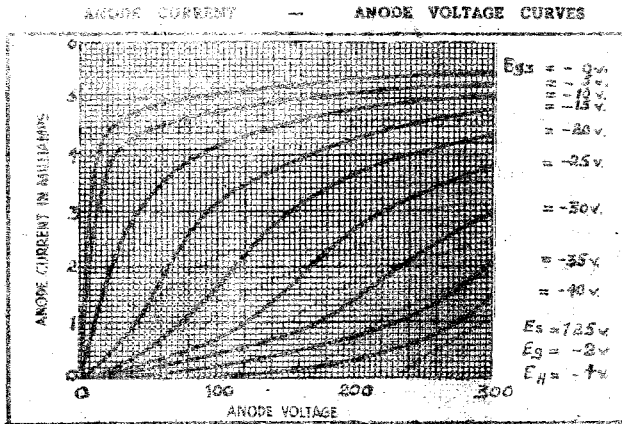
Specification MAP/CV1129/Issue 5 Dated 17.9.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

<u>TYPE OF VALVE</u> - H.F. Pentode <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass-unmetallised <u>PROTOTYPE</u> - MS/Pen T.			<u>MARKING</u> See K1001/4		
<u>RATING</u>		Note	<u>BASE</u> B7		
Heater Voltage (V) 4.0 Heater Current (A) 1.0 Max. Peak Anode Voltage (kV) 4.0 Max. Screen Voltage (V) 125 Max. Anode Dissipation (W) 3.0 Max. Screen Dissipation (W) 1.0 Max. Grid Resistance (MΩ) 2.0 Mutual Conductance (mA/V) 2.8 Anode Impedance (MΩ) 0.6			A	A	
<u>CAPACITANCES (pF)</u>			Pin	Electrode	
Gae	5.0		1	No connection	
Gge	12.0		2	Control grid	
Gag (max.)	0.02		3	Suppressor grid	
			4	Heater	
			5	Heater	
			6	Cathode	
			7	Screen grid	
			T.C.	Anode	
			<u>TOP CAP</u> See K1001/AI, D5.1		
<u>NOTE</u>			<u>DIMENSIONS</u> See K1001/AI/D1.		
A. $V_a = 250$ , $V_{g2} = 125$ , $V_{g1} = -2.0$ , $I_a = 5.4\text{mA}$ .			Dimension	Min.	Max.
			A	(mm)	120
			B	(mm)	- 45

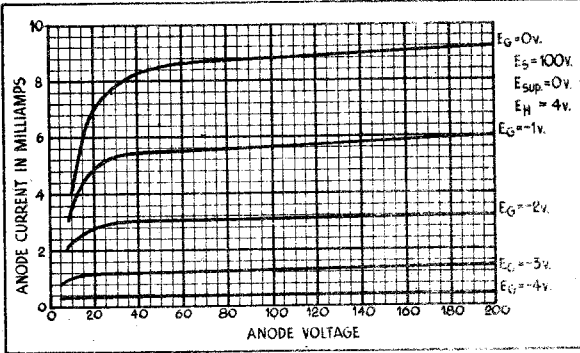
To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested		
							Min.	Max.			
a	See K1001/AIII					<u>CAPACITANCES (pF)</u>					
	Links to H.P.	Links to L.P.	Links to E.								
	TC1	1,3,4,5,6,7	2,8,9,10, TC2	Cae	-					6.0	6 per week
	2	1,3,4,5,6,7	8,9,10, TC1, TC2	Cge	-					15.0	
TC1	2	1,3,4,5,6, 7,8,9,10, TC2	Cag	-	0.02	T.A.					
	Vh	Va	Vg2	Vg1	Ia(mA)						
b	4.0	0	0	0	0	Ih (A)	0.9	1.1	100% or S		
c	4.0	200	100	-1.5	-	Ia (mA)	3.2	6.4	100%		
d	4.0	200	100	-1.5	-	Ig <sup>2</sup> (mA)	-	2.0	100% or S		
e	4.0	200	100	-1.5	-	gm (mA/V)	2.2	3.4	100%		
	Peak grid swing $\pm 0.5V$ . max.										
f	4.0	200	100	-1.5	-	Reverse Ig <sup>1</sup> ( $\mu A$ )	-	1.0	100%		
g	4.0	200	100	-6.0	-	Ia (mA)	-	0.2	100%		
h	4.0	-	100	Tied to cathode thro' 0.1M $\Omega$	2.0	Va (V)	-	9.0	100%		
j	4.0	3kV. thro' 1.0M $\Omega$	100	-15	-	Ia ( $\mu A$ )	-	1.0	100%		
k	4.0	4kV. thro' 1.0M $\Omega$	100	-15	-	No discharge or sparking shall occur			100%		



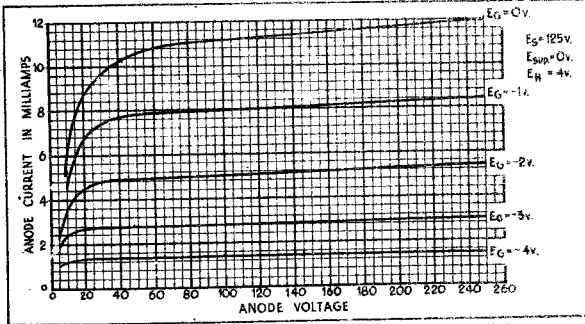
ANODE CURRENT

ANODE VOLTAGE CURVES

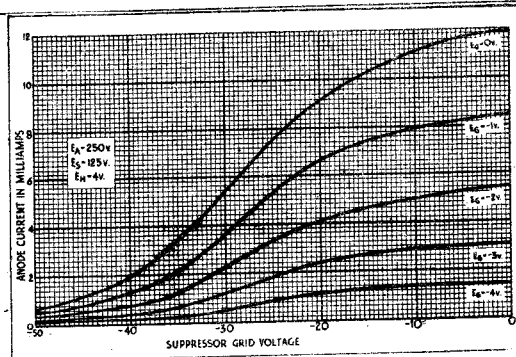


ANODE CURRENT

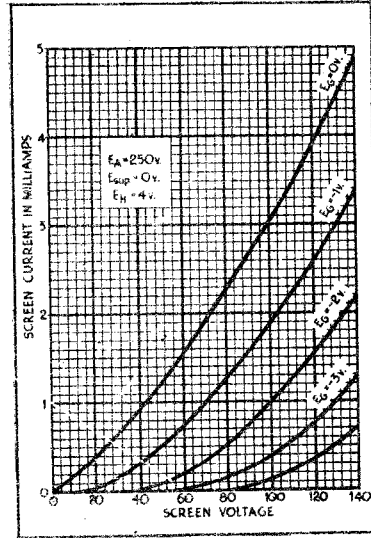
ANODE VOLTAGE CURVES



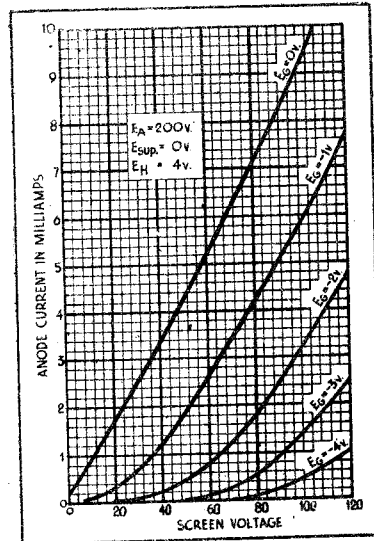
ANODE CURRENT SUPPRESSOR GRID VOLTAGE CURVES



SCREEN CURRENT — SCREEN VOLTAGE CURVES



ANODE CURRENT — SCREEN VOLTAGE CURVES



Source of Curves: Cossor Catalogue.