

Specification MAP/CV1106;CV1598/Issue 4 Dated 7.1.46. 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> - Variable- μ H.F. Pentode. <u>CATHODE</u> - Indirectly Heated <u>ENVELOPE</u> - Glass-unmetallised <u>PROTOTYPE</u> - 9D2		<u>MARKING</u> See K1001/4																			
<u>RATING</u>		<u>BASE</u> B7 See K1001/AIV/D5.3																			
Heater Voltage (V) 13.0 Heater Current CV1106 (A) 0.2 CV1598 (A) 0.15 Max. Anode Voltage (V) 250 Max. Screen Voltage (V) 125 Mutual Conductance (mA/V) 1.65 A Anode Impedance (M Ω) 0.6 A Amplification Factor 1000 A		<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>No connection</td></tr> <tr><td>2</td><td>Anode</td></tr> <tr><td>3</td><td>Suppressor Grid</td></tr> <tr><td>4</td><td>Heater</td></tr> <tr><td>5</td><td>Heater</td></tr> <tr><td>6</td><td>Cathode</td></tr> <tr><td>7</td><td>Screen Grid</td></tr> <tr><td>T.O.</td><td>Control Grid</td></tr> </tbody> </table>		Pin	Electrode	1	No connection	2	Anode	3	Suppressor Grid	4	Heater	5	Heater	6	Cathode	7	Screen Grid	T.O.	Control Grid
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<u>CAPACITANCES (pF)</u> Cag (max.) 0.025 Cae 13.0 Cge 4.7		<u>TOP CAP</u> See K1001/AI/D5.1																			
		<u>DIMENSIONS</u> See K1001/AI/D1.																			
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NOTES

A:- Measured at $V_a = 250V$, $V_{g2} = 125V$, $V_{g1} = -3V$

B:- This valve is similar to M. of S. type ARP3, the only difference being that the latter type has dimension B = 40 mm.max.

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>			6 per week		
	Links to H.P.	Links to L.P.	Links to E.		1. Cae					11.5	14.5
	2	1,3,4,5, 6,7.	8,9,10, TC1,TC2		2. Cge					4.2	5.2
	T.C.1.	1,3,4,5, 6,7.	2,8,9, 10,TC2		3. Cag					-	0.025
	With valve screened										
b	Vh	Va	Vg2	Vg1	Vg3	Ih CV1106 (A) CV1598 (A)	0.18 0.135	0.22 0.165	100% or S		
	13.0	0	0	0	0						
c	13.0	250	125	-3	0	Ia (mA)	6.0	13.0	100%		
d	13.0	250	125	-3	0	Ig2 (mA)	1.9	3.3	100% or S		
e	13.0	250	125	-3	0	gm (mA/V)	1.3	2.0	100%		
	Peak grid swing $\pm 0.5V_{max}$.										
f	13.0	250	125	-3	0	Reverse Ig (μA)	-	2.0	100%		
g	13.0	250	125	-30	0	Tail Ia (mA)	-	1.0	100%		
h	13.0	30	30	30	30	Ic (mA)	50	-	100%		