

Specification MAP/CV1599/Issue 4 Dated 11.9.46. 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 <u>CATHODE</u> : Indirectly heated <u>ENVELOPE</u> : Glass-unmetallised <u>PROTOTYPE</u> : 8D2	<u>MARKING</u> See K1001/4
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<u>RATING</u>		Note	<u>BASE</u>	
Heater Voltage	(V)	13.0	87	
Heater Current	(A)	0.15	Pin	Resources
Max. Anode Voltage	(V)	250	1	No connection
Max. Screen Voltage	(V)	125	2	Anode
Mutual Conductance (mA/V)		1.25	3	Suppressor grid
Anode Impedance (MΩ)		1.5	4	Heater
Amplification Factor		1900	5	Heater
<u>CAPACITANCES (pF)</u>			6	Cathode
Cag (max.)		0.025	7	Screen grid
Cas		13.0	T.C.	Control grid
Cgs		4.7		

TOP CAP

See K1001/AI/D5.1

DIMENSIONS

See K1001/AI/D1.

<u>NOTE</u>			
A. At $V_a = 250$, $V_{g2} = 100$, $V_{g1} = -3.0$, $I_a = 2.3mA$.			
Dimension		Min.	Max.
A	(mm)	108	117
B	(mm)	-	39
C	(mm)	-	35

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested				
							Min.	Max.					
a	See K1001/AYII					CAPACITANCES (pF)							
	Links to H.P.	Links to L.P.	Links to E.							C _{ag}	-	0.025	T.A.
	2	TC1	1,3,4,5, 6,7,8,9, 10, TC2										
	2	1,3,4,5, 6,7.	8,9,10, TC1,TC2										
	TC1	1,3,4,5, 6,7.	2,8,9, 10,TC2.			C _{ae}	11.5	14.5	6 per week				
						C _{gs}	4.2	5.2	week				
b	V _b	V _a	V _{g2}	V _{g1}	V _{g3}	I _b (A)	0.135	0.165	100% or 5				
	13.0	0	0	0	0								
c	13.0	250	100	-3.0	0	I _a (mA)	1.3	3.3	100%				
d	13.0	250	100	-3.0	0	I _{g2} (mA)	0.1	1.0	100% or 5				
e	13.0	250	100	-3.0	0	Reverse I _g (mA)	-	2.0	100%				
f	13.0	250	100	-3.0	0	g _m (mA/V)	1.0	1.5	100%				
	Peak grid swing ±0.5V. max.												
g	13.0	30	30	30	30	I _c (mA)	50	-	100%				