

Specification MAP/CV1572/Issue 6 Dated 4.10.46 To be read in conjunction with K.1001.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>RESTRICTED</td><td>RESTRICTED</td></tr> </table>	SECURITY		Specification	Valve	RESTRICTED	RESTRICTED
SECURITY							
Specification	Valve						
RESTRICTED	RESTRICTED						

—————> Indicates a change

<u>TYPE OF VALVE</u> - Beam Tetrode			<u>MARKING</u>		
<u>CATHODE</u> - Indirectly heated			See K1001/4.		
<u>ENVELOPE</u> - Glass-Unmetallised					
<u>PROTOTYPE</u> 807					
<u>RATING</u>		Note A	<u>BASE</u> American Medium 5-pin		
Heater Voltage (V) 6.3			Pin	Electrode	
Heater Current (A) 0.9			1	Heater	
Maximum Anode Voltage (V) 600			2	Screen Grid	
Maximum Screen Voltage (V) 300			3	Control Grid	
Maximum Anode Dissipation (W) 25			4	Cathode and beam forming plates	
Maximum Screen Dissipation (W) 3.5			5	Heater	
Mutual Conductance (mA/V) 7.1			TC	Anode	
Maximum Signal D.C. Anode Current (mA) 120			<u>TOP CAP</u> See K1001/AI/D 5.1		
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See K1001/AI/D1		
C _{ae} 8.2		Dimension		Min.	Max.
C _{ge} 12.5		A (mm)		-	146
C _{ag} (max.) 0.35		B (mm)		-	53
		C (mm)			35

NOTE

A. At $V_a = 300V.$, $V_{g2} = 250V.$, $I_a = 83mA.$, $V_{g1} = -12.5V.$ approx.

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> C _{ae} C _{ge} C _{ag}			6 per week
	Links to H.P.	Links to L.P.	Links to E					
	TC1	1,2,4,5	3,6,7, 8,9,10 TC2					
	3	1,2,4,5	6,7,8, 9,10, TC1, TC2					
	TC1	3	1,2,4, 5,6,7, 8,9,10 TC2					
b	V _h	V _a	V _{g2}	I _a (mA)	I _h (A)	0.8	1.0	100% or S
	6.3	0	0	-				
c	6.3	300	250	83	V _{g1} (V)	-9.5	-15.5	100%
d	6.3	300	250	83	I _{g2} (mA)	-	11.0	100% or S
e	6.3	300	250	83	Reverse I _{g1} (μA)	-	2.5	100%
f	6.3	300	250	83	g _m (mA/V)	5.5	8.7	100%
		Peak grid swing ±1.0V. max.						
g	6.3	300	250	1.0	V _{g1} (V)	-	-48	100% or S
h	6.3	400 V. applied to anode, screen, and grid strapped. See K1001/A5			I _e (A)	4.0	-	100%