

Specification MAP/CV1077/Issue 5 Dated 30.8.46. 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> : Tuning Indicator <u>CATHODE</u> : Indirectly heated <u>ENVELOPE</u> : Glass unmetallised <u>PROTOTYPE</u> : EM31		<u>MARKING</u> See K1001/4	
<u>RATING</u>		<u>BASE</u>	
Heater Voltage	(V)	6.3	Note I.O.
Heater Current	(A)	0.2	
Max. Anode Voltage	(V)	250	
Max. Target Voltage	(V)	250	
		Pin	Electrode
		1	No connection
		2	Heater
		3	Anode
		4	Target
		5	Control Grid
		6	Pin omitted
		7	Heater
		8	Cathode
<u>DIMENSIONS</u>			
See K1001/A1/D1			
Dimension		Min.	Max.
A	(mm)	80	85
B	(mm)	-	30
C	(mm)	-	30

TESTS

To be performed in addition to those applicable in
K1001

	Test Conditions				Test	Limits		No. Tested	Note
	Vh	Va	Vr	Vg		Min.	Max.		
For the tests below the anode voltage shall be applied through a resistor of $2\text{ M}\Omega$ ($\pm 1\%$)									
a	6.3	0	0	0	Ih (A)	0.18	0.22	100% or S	
b	6.3	250	250	0	Shadow Angle (degrees)	75	-	100%	1
c	6.3	250	250	-5	Shadow Angle (degrees)	-	10	100%	1
d	6.3	250	250	0	Target Current (mA)	-	5.0	100%	
e	6.3	250	250	-2	Reverse Ig1 (μA)	-	0.5	100%	

NOTE

- Under the conditions specified in clauses 'b' and 'c' above, the part of the target which is illuminated shall be of uniform brightness and the shadow free from bright patches. The shadow edge shall be sharply defined and free from irregularities. These conditions shall also hold when the target voltage is reduced from 250 volts to 175 volts.