

Specification MAP/CV.49 Issue 2 dated 17.1.52 To be read in conjunction with K.1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

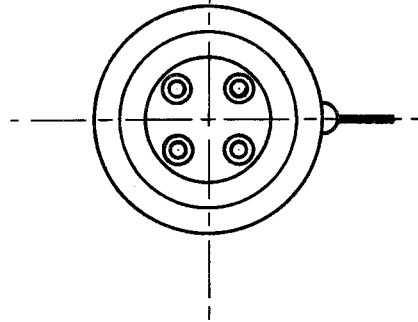
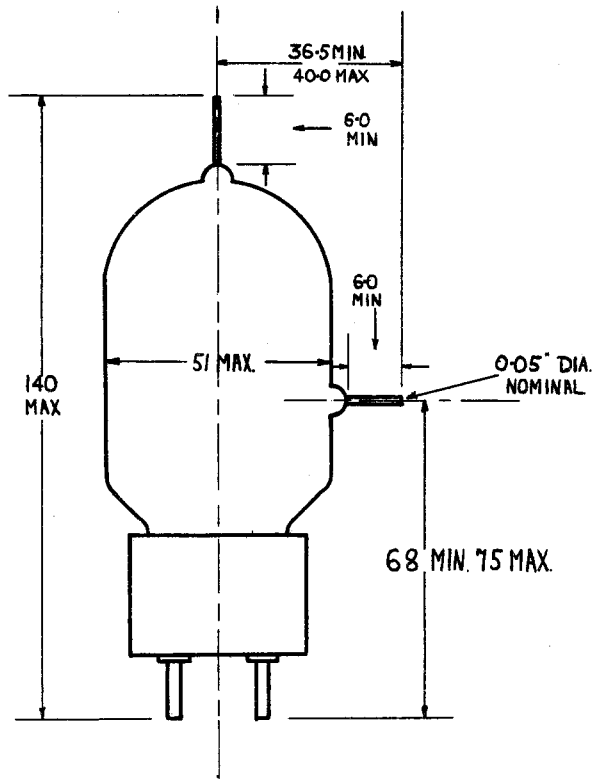
—> Indicates a change

TYPE OF VALVE - Transmitting triode. CATHODE - Directly heated, thoriated tungsten. ENVELOPE - Glass - unmetallised. PROTOTYPE - 3B/501.A.		<u>MARKING</u> See K.1001/4.	
<u>RATING</u>		<u>BASE</u>	
		American Medium 4 - pin	
		<u>CONNECTIONS</u>	
		<u>Pin</u>	<u>Electrode</u>
		1	Filament
		2	No connection
		3	No connection
		4	Filament
		Side contact	Control Grid
		Top contact	Anode
		<u>DIMENSIONS</u>	
		See drawing on Page 3.	
Filament Voltage (V) 5.0 Filament Current (A) 5.15 Maximum Anode Voltage (kV) 2.0 Max. Direct Anode Current (mA) 120. Max. Anode Dissipation (W) 50. Mutual Conductance (mA/V) 2.0 Amplification Factor 29.0 Max. Frequency (Mc/s) at which above maximum ratings apply 200.		Note	

To be performed in addition to those applicable in K1001.

Test Conditions				Test	Limits		No. Tested	
					Min	Max		
See K1001/AlII				CAPACITANCES (pF)			1% (20)	
Links to H.P.	Links to L.P.	Links to E.						
Side Contacts	Top Contact	1,2,3,4.						
Side Contact	1,2,3,4.	Top Contact						
1,2,3,4.	Top Contact	Side Contact		1. Cag.	-	2.5		
				2. Cgs.	-	2.7		
				3. Cae.	-	1.0		
	V _F	V _a	V _g	I _a	Filament current (A)	4.9	5.4	100%
b	5.0 A.C.	0	0	0				
c	5.0 A.C.	Strapped peak applied volts 1.0 kV See K1001/AV		-	Peak emission current (A)	1.75	-	100%
d	5.0 A.C.	1.5 kV	-	50	Test conditions maintained for a period of 3 mins. At the end of which time:- Reverse grid current (μA). The reverse grid current must not be rising in value.	-	15.0	100%
e	5.0 A.C.	1.25 kV	-25	-	Anode current (mA)	18	42	100%
f	5.0 A.C.	1.25 kV	-30	-	Change in Anode current (mA) from value noted in test (e)	7.0	15.0	100%
g	5.0 A.C.	-	-30	Value as in test (d)	Amplification factor derived from tests (e) and (f)	24	34	100%
h	5.0 A.C.	1.25 kV	-60	-	Anode current (mA)	-	3.0	100%

NOTE:- All electrode potentials are measured with respect to the centre point of the filament transformer secondary.



VIEW OF UNDERSIDE OF BASE.