

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV16/Issue 4 Dated 13.11.46. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.3.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specn.</u></td><td><u>Valve</u></td></tr> <tr> <td>Restricted.</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specn.</u>	<u>Valve</u>	Restricted.	Unclassified
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<u>TYPE OF VALVE:-</u> UHF triode with grounded grid, designed for use at 600 Mc/s. <u>CATHODE:-</u> Indirectly heated. Oxide coated on one side only. Cathode strapped to one heater lead. <u>ENVELOPE:-</u> Glass, unmetallised. <u>PROTOTYPE:-</u> S25A.	<u>MARKING</u> See K1001/4.
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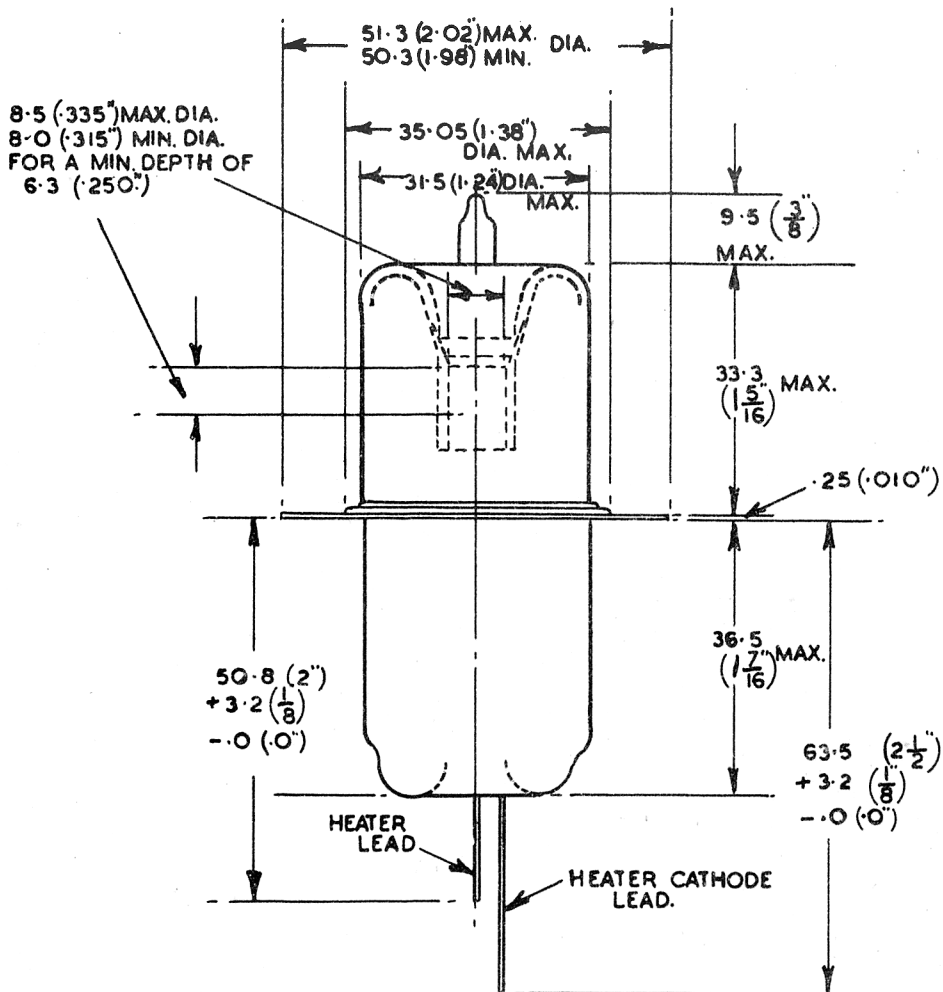
<u>RATING</u>	Note	<u>DIMENSIONS AND CONNECTIONS</u>
Heater Voltage (V) 4.0 Heater Current (A) 0.65 Max. Anode Voltage (V) 350 Autobias Resistance (ohms) 150 Max. Anode Dissipation (W) 2 Max. Anode Dissipation (W) 3 Amplification Factor 100 Mutual Conductance (mA/V) 5	A B B	See Fig. 1. <u>PACKING</u> See K1001/7. <u>NOTES</u> A. With adequate cooling. B. At $V_h = 4.0$ V, $V_a = 250$ V, V_g autobias resistance = 150Ω
<u>CAPACITANCES (pF.)</u> Cag 1.6 Cgc 4.0 Cac 0.035		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vh (V)	Va (V)	Vg (V)		Min.	Max.	
a	4.0	0	0	Ih (A)	0.575	0.725	100%
b	4.0	250		Ia (mA)	3.75	9.0	100%
c	4.0	250	Auto- bias thro' 150 ohms	Slope (mA/V) (Dynamic measure- ment)	4.25		100%
d	4.0	250		Amplification Factor (Dynamic measurement)	85		100%
e	4.0	300	-1	Reverse Ig (μ A)		1.0	100%
f	0	0	0	<u>Capacitances</u> (pF)			
	With valve cold and earthed shield around bulb.			i. Cag		1.8	6 per week
				ii. Cgc		6.0	
				iii. Cco		0.05	T.A.

FIG. 1.



ALL DIMENSIONS IN MILLIMETRES EXCEPT WHERE OTHERWISE STATED.