

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1152/Issue 5. Dated 5.11.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Triode.			<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated.			See K1001/4.		
<u>ENVELOPE:-</u> Glass.					
<u>PROTOTYPES:-</u> 1L410, PM4DX.					
<u>RATING</u>		Note	<u>BASE</u>		
Max. Operating Filament Voltage (V) 3.8			B4		
Approx. Filament Current (A) 0.1			See K1001/AIV/D5.1.		
Max. Anode Voltage (V) 100			Pin	Electrode	
Amplification Factor 14			1	A	
Mutual Conductance (mA/V) 2		2	G		
Anode Impedance (ohms) 7000		3	F		
Average Anode Current (mA) 4.5		4	F		
<u>CAPACITANCES (pF. approx.)</u>		<u>DIMENSIONS</u>			
Cag 4.7		See K1001/AI/D1.			
Ca-all 7		Dimension	Min.	Max.	
		A mm	-	110	
		B mm	-	47	
<u>NOTE</u>			<u>PACKING</u>		
A. $V_a = 100 \text{ V}$, $V_g = -1 \text{ V}$.			See K1001/7.		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Note
	Vf (V)	Va (V)	Vg (V)		Min.	Max.		
a	3.6			If (A)	0.085	0.105	1% (20)	
b	3.6	$\bar{V}$	$\bar{V}$	$\bar{V}$ (V)	-	100	100%	1
	$\bar{V}$ adjusted for $I_e = 15$ mA							
c	3.6	100	-2	Reverse I_g (μ A)	-	0.5	100%	
d	3.6	100	-1	I_a (mA)	3.5	6.0	100%	
e	3.6	100	-0.5 to -1.5	g_m (mA/V)	1.4	2.7	100%	
f	See K1001/AIII			<u>Capacitances</u> (pF.)			6 per week	
	Links to H.P.	Links to L.P.	Links to E					
	1	2	3,4,5,6, 7,8,9,10, TC1, TC2.	(i) C_{ag}	4.2	5.2		
	1	2,3,4.	5,6,7,8, 9,10, TC1, TC2.	(ii) C_{a-all}	6.0	8.0		

NOTE

1. Anode and grid strapped together.