

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1183/Issue 2. Dated 8.11.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Variable- $\mu$ Screen Pentode			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4.		
<u>ENVELOPE:-</u> Glass : clear					
<u>PROTOTYPE:-</u> W42					
<u>RATING</u>		Note	<u>BASE</u> B7 See K1001/AIV/D5.3		
Heater Voltage	(V) 4.0		Pin	Electrode	
Heater Current	(A) 0.6	A	1	No connection	
Max. anode voltage	(V) 250		2	Anode	
Max. screen voltage	(V) 125		3	Suppressor grid	
Mutual conductance	(mA/V) 1.5		4	Heater	
			5	Heater	
			6	Cathode	
		7	Screen grid		
		TC	Control grid		
<u>NOTE</u>			<u>TOP CAP</u> See K1001/AI/D5.1		
A. At $V_a = 250$ V, $V_{g2} = 125$ V, $V_{g3} = 0$ , $V_g = -3$ V.			<u>DIMENSIONS</u> See K1001/AI/D1.		
			Dimension	Min.	Max.
			A mm	-	120
			B mm	-	42
			<u>PACKING</u> See K1001/7.		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
	Vh (V)	Va (V)	Vg2 (V)	Vg3 (V)	Vg1 (V)		Min.	Max.	
a	4.0					Ih (A)	0.5	0.7	1% (20)
b	4.0	250	100	0	-3	Reverse Ig ( $\mu$ A)	-	1.0	100%
c	4.0	250	100	0	-3	Ia (mA)	5.5	9.5	100%
d	4.0	250	100	0	-4.0	Ia tail. ( $\mu$ A)	2	170	100%
e	4.0	250	100	0	-3	Ig2 (mA)	1.3	2.6	10% (50)
f	4.0	250	100	0	-2.5	Mutual Conductance (mA/V) Grid voltage swing to be $\pm$ 0.5 Volt	1.0	2.0	100%