

VALVE ELECTRONIC

(POVT 105)

GENERAL POST OFFICE: E-IN-C (S)

Specification: G.P.O./CV 1673/Issue 1 Dated: 12-6-46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	Restricted	Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Metallised glass <u>PROTOTYPE:</u> H.L. 2			<u>MARKING</u>		
			See K 1001/4		
<u>RATING</u>		Note	<u>BASE</u>		
			British 4-pin (B4)		
			<u>CONNEXIONS</u>		
			<u>Pin</u>	<u>Electrode</u>	
Max. filament voltage (V)		2.0	1	Anode	
Nominal filament current (A)		0.1	2	Grid	
Max. anode voltage (V)		150	3	Filament -	
Amplification factor		27.0	A	and Metallising	
Anode impedance (ohms)		18,000	A	4	Filament +
Mutual conductance (mA/V)		1.5	A		
			<u>DIMENSIONS</u>		
			See K 1001/A1/D1		
			<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
			A (mm)	-	105
			B (mm)	-	42
<u>CAPACITANCES (pF)</u>					
C _{ag} (nominal)		4.5			
C _{ge} (nominal)		3.0			
C _{ae} (nominal)		5.25			
<u>NOTE</u>					
A. Measured with V _a = 100, and V _g = 0					

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	Vf (V)	Va	Vg		Min.	Max.		
	(a)	1.9	0		0	I _f (A)		
(b)	1.9	100	0	I _a (mA)	2.24	4.16	100%	
(c)	1.9	100	0	g _m (mA/V)	1.20	1.88	100%	
(d)	1.9	100	- 2	Reverse I _g (μA)	-	0.5	100%	
(e)	1.9	100	0	μ	22.0	32.0	100%	