

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

(POVT 178)

Specification: G.P.O./CV1721/Issue 1	<u>SECURITY</u>	
Dated: 19.3.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

-----> indicates a change

<u>TYPE OF VALVE:</u> Midget triode				<u>MARKING</u>			
<u>CATHODE:</u> Directly heated				See K1001/4			
<u>ENVELOPE:</u> Unmetallised glass							
<u>PROTOTYPE</u> XP 1.5							
<u>RATING</u>				<u>BASE</u>			
				Hivac (Midget) 4-pin (H4)			
				<u>CONNEXIONS</u>			
				Pin		Electrode	
Filament voltage (V) 1.5				1		Grid	
Nominal filament current (A) 0.083				2		Filament	
Max. anode voltage (V) 100.0				3		Filament	
Mutual conductance (mA/V) 0.8				4		Anode	
				<u>DIMENSIONS</u>			
				See K1001/A1/D1			
				Dimension		Min.	Max.
				A (mm)		-	65
				B (mm)		-	15

NOTEA. Measured with $V_a = 50$, and $V_g = 0$.

To be performed in addition to those applicable in K1001.

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	V _f (V)	V _a	V _g		Min.	Max.		
(a)	1.5	-	-	I _f (A)	0.078	0.088	100%	1
(b)	1.5	50	0	I _a (mA)	4.2	5.5	100%	1
(c)	1.5	50	-1.0	I _a (mA)	3.4	4.4	100%	1
(d)	1.5	50	-1.0	Reverse I _g (μA)	-	0.5	100%	1
(e)	1.5	50	0	g _m (mA/V)	0.6	1.0	100%	1

NOTE

1. Before commencing the tests, the filament shall be pre-heated for 10 minutes, the filament voltage being adjusted to 1.5 volts with all other electrodes disconnected.