

VALVE ELECTRONIC **C.V. 437**

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

Specification: G.P.O./CV437/Issue 3 Dated: November 1952 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> High Slope tetrode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> KT 67		<u>MARKING</u> See K1001/4		
<u>Rating</u>		<u>BASE</u> B9G (Metal sole plate)		
Heater voltage (V) 6.3 Heater current (nominal) (A) 4.5 2.7 Max. anode voltage (V) 600 Max. screen voltage (V) 300 Max. anode dissipation (W) 22 Max. screen dissipation (W) 3 Mutual conductance (mA/V) 13.0		<u>NOTE</u> A		
		<u>CONNEXIONS</u>		
		<u>PIN</u>	<u>ELECTRODE</u>	
		1	Heater	
		2	G2	
		3	Anode	
		4	No connection	
		5	Screen	
		6	Cathode	
		7	G1	
		8	Screen	
		9	Heater	
		<u>DIMENSIONS</u> See K 1001/A1/D1		
<u>CAPACITANCE (pF)</u>		<u>DIMENSION</u>	<u>MIN</u>	<u>MAX</u>
Cae	10.25	A (mm)	-	95
Cge	19.0	B (mm)	-	45
Cag	0.08			
<u>NOTE</u> A. Measured with $V_a = 250$, $V_g 2 = 180$, and $I_a = 80$ mA				

	Test Conditions					Test	Limits		No. Tested	Note
							Min.	Max.		
a	See K 1001/AlII					<u>CAPACITANCE</u> (pF)				
	Links to H.P.	Links to L.P.	Links to E.							
	3	1,2,5,6,8,9	4,7,10, TC1, TC2.							
	7	1,2,5,6,8,9	3,4, 10 TC1, TC2							
	3	7	1,2,4,5,6,8,9,10,TC1, TC2			3. Cag		0.095	T.A.	
b	Vh	Va	Vg2	Vg1	Ia(m/A)	Ih (A)	1.13 1.32	1.41 1.68	100%	
	6.3	0	0	0						
c	6.3	250	180		80	Vg (V)	-6	-12	100%	
d	6.3	250	180		80	Ig2 (mA)	-	8	100%	
e	6.3	250	180		80	gm (mA/V)	9.75	16.25	100%	
f	6.3	250	180		80	Reverse Ig1 (μA)		2.5	100%	
g	6.3	250	180	0		Ia (mA)	180		100%	1
h	6.3	250	180		0.2	Vg1 (V)	-	-35	100%	

NOTE

1. Duration of test to be 2 seconds max.