

VALVE ELECTRONIC **CV2747**

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

Specification: G.P.O./CV 2747/Issue 1 Dated: December, 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> Tuning Indicator <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Glass Unmetallised <u>PROTOTYPE:</u> 6U5G		<u>MARKING</u> See K1001/4		
<u>RATING</u>		<u>NOTE</u>	<u>BASE</u> I.O.	
Heater Voltage	(V) 6.3		<u>CONNECTIONS</u>	
Heater Current	(A) 0.3		<u>FIN</u>	
Max. Anode Voltage	(V) 275		<u>ELECTRODE</u>	
Max. Target Voltage	(V) 275		1	No connection
			2	Heater
			3	Anode
			4	Target
			5	Control grid
			6	Omitted
			7	Heater
			8	Cathode
			<u>DIMENSIONS</u> See K1001/A1/D1	
		<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
		A	-	107
		B	-	40
			<u>PACKAGING</u> See K 1005	

Tests

To be performed in addition to those applicable in K 1001

Test conditions						Test			
	Vh (V)	Va (V)	Vt (V)	Vg (V)	RL		Min.	Max.	Note
a	6.3	-	-	-	-	Ih (A)	.275	.325	
b	6.3	250	250	-4	-	Ia (mA)	5.0	9.5	1
c	6.3	250	250	-4	-	It (mA)	0.2	6.0	
d	6.3	250	250	-4	-	Rev. Ig. (μA)	-	1.5	1
e	6.3	250	250	-4	1mA	Shadow to be open to an angle of 60° (approx.)			2
f	6.3	250	250	-17	1mA	Shadow must not be closed			2
g	6.3	250	250	-32	1mA	Shadow must be closed at outer edge and any gap at inner edge must not exceed (1mm)			2
h	6.3	30	30	30	-	Emission (mA)	15	-	

Notes

- (1) The shadow electrode shall fall within $\pm 12^\circ$ of a line parallel to a plane passing through the base pins for the anode and cathode and shall be located over the cathode pin.
- (2) Under the conditions specified in clauses e, f and g, the target shall be reasonably free from:
 - (a) Uneven brightness of the illuminated section.
 - (b) Bright patches in the shadow section.
 - (c) Poorly defined and irregular shadow edge.