

VALVE ELECTRONIC **CV347**

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV347/Issue 4. Dated 6.3.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE</u> :- Double diode triode.		<u>MARKING</u> See K1001/4.
<u>CATHODE</u> :- Indirectly heated.		
<u>ENVELOPE</u> :- Glass.		
<u>PROTOTYPE</u> :- EBC21.		
<u>RATING</u>		<u>BASE AND CONNECTIONS</u> B8G (Mod.)
Heater Voltage (V)	6.3	See K1001/AIV/D12 except for dimension S max. = 32 mm.
Heater Current (A)	0.2	
<u>Triode Section :</u>		<u>Pin</u> <u>Electrode</u>
Max. Anode Voltage (V)	300	1 Heater
Max. Anode Dissipation (W)	1.5	2 Anode
Max. Cathode Current (mA)	10	3 Grid
<u>Diode Section :</u>		4 Cathode
Max. Peak Inverse Voltage (V)	200	5 Diode 2
Max. Diode Current (mA)	0.8	6 Diode 1
Max. Heater/Cathode Voltage (V)	75	7 Cathode
		8 Heater
		Spigot No connection
<u>TYPICAL OPERATING CONDITIONS</u>		<u>DIMENSIONS</u>
<u>Triode Section :</u>		See drawing page 3.
Anode Voltage (V)	250	<u>PACKING</u> See K1001/7.
Grid Voltage (V)	-5.5	
Anode Current (mA)	5.0	
Mutual Conductance (mA/V)	2.0	
Amplification Factor	30	
<u>CAPACITANCES (pF.)</u>		
Cag	1.2	
Cae	2.0	
Cge	2.9	
<u>NOTE</u>		
A. With $V_a = 250$ V., $V_{g1} = - 5.5$ V.		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg (V)	Vd1 (V)	Vd2 (V)		Min.	Max.		
a	6.3	-	-	-	-	Ih (A)	0.19	0.21	100% or S	
b	6.3	25 V A.C.	25 V A.C.	0	0	Ie (mA)	28	-	100%	4
c	6.3	250	0	0	0	Ia (mA)	15.5	26.5	100%	
d	6.3	250	-6	0	0	Ia (mA)	1.7	5.8	100%	
e	6.3	250	-14	0	0	Ia (μA)	-	45	100%	1
f	6.3	250	-5	0	0	Reverse Ig (μA)	-	0.7	100%	3
DIODE PORTION										
g	6.3	0	0	0	0	Id1 (μA)	7	290	100%	2
h	6.3	0	0	0	0	Id2 (μA)	7	290	100%	2
i	6.3	0	0	10	0	Id1 (mA)	3.75	14.5	100%	
j	6.3	0	0	0	10	Id2 (mA)	3.75	14.5	100%	

NOTES

1. 1 megohm in anode circuit.
2. 300 μA meter 600 ohms.
3. 0.1 megohm in grid circuit.
4. This is a spot reading of the mean current, measured on a D.C. ammeter, and the valve is not meant to be run at this rating for more time than is required to take the reading.

