

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV347/Issue 4. Dated 6.3.47. To be read in conjunction with K1001.		<u>SECURITY</u> Specification Valve Restricted Unclassified	
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<u>TYPE OF VALVE:-</u> Double diode triode. <u>CATHODE:-</u> Indirectly heated. <u>ENVELOPE:-</u> Glass. <u>PROTOTYPE:-</u> EBC21.		<u>MARKING</u> See K1001/4.	
<u>RATING</u> Heater Voltage (V) 6.3 Heater Current (A) 0.2 <u>Triode Section :</u> Max. Anode Voltage (V) 300 Max. Anode Dissipation (W) 1.5 Max. Cathode Current (mA) 10 <u>Diode Section :</u> Max. Peak Inverse Voltage (V) 200 Max. Diode Current (mA) 0.8 Max. Heater/Cathode Voltage (V) 75		<u>BASE AND CONNECTIONS</u> B8G (Mod.) See K1001/AIV/D12 except for dimension S max. = 32 mm.	
<u>TYPICAL OPERATING CONDITIONS</u> <u>Triode Section :</u> Anode Voltage (V) 250 Grid Voltage (V) -5.5 Anode Current (mA) 5.0 Mutual Conductance (mA/V) 2.0 Amplification Factor 30 <u>CAPACITANCES (pF.)</u> C _{ag} 1.2 C _{ae} 2.0 C _{ge} 2.9		<u>Pin</u> 1 Heater 2 Anode 3 Grid 4 Cathode 5 Diode 2 6 Diode 1 7 Cathode 8 Heater Spigot No connection	
<u>NOTE</u> A. With V _a = 250 V., V _{g1} = - 5.5 V.		<u>DIMENSIONS</u> See drawing page 3.	
		<u>PACKING</u> See K1001/7.	

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 (μ A)	-	45	100%	1
f	6.3	250	-5	0	0	Reverse Ig (μ A)	-	0.7	100%	3
	DIODE PORTION									
g	6.3	0	0	0	0	Id1 (μ A)	7	290	100%	2
h	6.3	0	0	0	0	Id2 (μ A)	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 megohm in anode circuit.
- 300 μ A meter 600 ohms.
- 0.1 megohm in grid circuit.
- 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.

