

Specification AD/CV2492 Issue No. 1 dated 18.2.59. To be read in conjunction with K1001 and B.S.1409	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:</u> Double Triode		<u>MARKING</u>	
<u>CATHODE:</u> Indirectly heated		See K1001/4	
<u>ENVELOPE:</u> Glass		<u>BASE</u>	
<u>PROTOTYPE:</u> B880C		B9A	
<u>RATINGS</u>		<u>CONNECTIONS</u>	
(All limiting values are absolute.)		Pin	Electrode
	Note	1	a"
Heater Voltage (V)	6.3	2	g"
Heater Current (A)	0.3	3	k"
Max. Peak Anode Voltage (I _a =0) (V)	440	4	h
Max. D.C. Anode Voltage (V)	250	5	h
Max. D.C. Anode Voltage (P _a < 0.8W) (V)	275	6	a'
Max. Anode Dissipation (W)	1.9	7	g'
Max. Grid Dissipation (W)	0.04	8	k'
Max. Grid-Cathode Resistor; (Auto bias Condition) (MΩ)	1.2	9	s
Max. Grid-Cathode Resistor; (Fixed bias I _a = < 5mA) (MΩ)	1.2	<u>DIMENSIONS</u>	
Max. Negative Grid Voltage (V)	120	See K1001/A.1/D.4	
Max. Peak Negative Grid Voltage (V)	220	Dimension (mm)	Min. Max.
Max. D.C. Cathode Current (mA)	22	A. Overall length	- 55.6
Max. Peak Cathode Current (mA)	110	B. Diameter	- 22.2
Max. Heater-Cathode Voltage (Cathode Positive) (V)	150	L. Seated height	- 49.0
Max. Heater-Cathode Voltage (Cathode Negative) (V)	70		
Max. Bulb Temperature (°C)	185		
Anode Current (mA)	15		
Mutual Conductance (mA/V)	12.5		
Amplification Factor	33		
<u>CAPACITANCES</u> (pF)			
C a, g	1.4		
C in	3.3		
C out'	1.8		
C out"	1.7		
<u>NOTES</u>			
A. Fixed bias should not be used when anode current exceeds 5 mA.			
B. Max. duty cycle = 0.1; max. pulse duration = 200 μs.			
C. Measured at V _a (b) = 100V; V _g (b) = + 9V; R _k = 680 ohms.			
D. Without external shield.			
E. Values apply to each section.			

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested	Note
	Links to H.P.	Links to L.P.	Links to E	Min.		Max.			
a	6	7	Rest	Capacitances (pF)	C a' g'	1.2	1.6	6 per week	1
	1	2	Rest		C a" g"	1.2	1.6		1
	7	4,5,8,9	Rest		C in'	2.7	3.9		1
	2	3,4,5,9	Rest		C in"	2.7	3.9		1
	6	4,5,8,9	Rest		C out'	1.6	2.0		1
	1	3,4,5,9	Rest		C out"	1.5	1.9		1
b	Vh (v)	Va (b) (v)	Vg (b) (v)	Rk (Ohms)	Ih (mA)	285	315	100%	
	6.3	-	-	-					
c	6.3	-	-	-	<u>Heater-Cathode Insulation</u> Leakage Current (μ A)	-	6.0	100%	2
d	6.3	100	9	680	Ia (mA)	14.2	15.8	100%	3
e	6.3	100	9	680	Ig1 (μ A)	-	0.1	100%	3
f	6.3	100	9	680	gn (mA/V)	10.5	15.0	100%	3,4
g	6.3	150	-8.5	0	Ia(tail) (mA)	-	0.1	100%	3

NOTES

1. Measured without an external shield.
2. Heater-Cathode leakage current when the heater is 120 volts negative to cathode through a meter-protecting resistance of not greater than 1 M Ω .
3. Test each section separately.
4. Measuring signal on grid not to exceed 100 mV r.m.s.; cathode resistor suitably by-passed.