VALVE ELECTRONIC

ADMIRALTY SURFACE WEAPONS ESTABLISHMENT

CV6045

Specification AD/CV6045

Issue No. 1 Reprint "A" dated 24.6.60.

To be read in conjunction with K1001, B.S.448 and B.S.1409.

SECURITY	
Specification	Valve
Unclassified	Unclassified

→ Indicates a change

TYPE OF VALVE:- Beam tetrode

CATHODE:- Indirectly heated

ENVELOPE:- Glass, unmetallised

PROTOTYPE:- VX6094/CV2377, see Note C.

RATINGS			Note
Heater Voltage (series)	(V)	26.0	
Heater Current (series)	(A)	1.3	
Heater Voltage (parallel)	(V)	13.0	
Heater Current (parallel)	(A)	2.6	
Max. d.c. Anode Voltage	(V)	800	A
Max. d.c. Screen Voltage	(V)	300	A
Max. Anode Dissipation	(W)	90	A
Max. Screen Dissipation	(W)	10	A
Max. Cathode Current	(mA)	800	A
Max. Heater/Cathode Voltage (d.c.) (Heater Negative)	(V)	250	A
Mutual Conductance	(mA/V)	31	B

CAPACITANCES (pF)	
c_a, g1	1.2
c_{in}	56
c_{out}	21

MARKING

See K1001/4

BASE

B.S.448/B7A

CONNECTIONS

Pin	Electrode
1	h
2	h tap
3	g1
4	k
5	g2
6	a
7	h

DIMENSIONS

See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	129	137
B (mm)	63	65

MOUNTING POSITION

Vertical

NOTES

A. Absolute maximum value.

B. Measured at Va = Vg2 = 150, Ia = 450 mA.

C. This valve is electrically similar to CV2377 but is shorter and has a sintered glass base.

D. The Joint Services Catalogue Number is:- 5960-99-037-2221

CV6045

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions					Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg2 (V)	Vg1 (V)	Ia (mA)		Min.	Max.		
a	26.0	0	0	0	0	Ih (A)	1.17	1.43	100% or S	
b	26.0	150	150	Adjust	600	Vg1 (V)	-6.7	-15.0	100%	
c	26.0	150	150	"	600	Reverse Ig1 (/uA)	-	6.0	100%	
d	26.0	150	150	"	600	Ig2 (mA)	-	65.0	100% or S	
e	26.0	150	150	"	450	Ia Rise when Vg1 is made more positive by 3V (mA)	71.0	136.0	100%	
	Vg1 then made more positive by 3V									
f	26.0	150	150	-60	-	Reverse Ig1 (/uA)	-	12.0	100%	
→ g	26.0	800	300	Adjust	115	V_a (mins)	2	-	100% or S	2
h	26.0	150	150	-60	-	Ia (mA)	-	15.0	100% or S	
j	26.0	50	150	As in Test (b)	-	Ig2 (mA)	-	140.0	100% or S	1
k	26.0	100	100	0	-	Ia (mA)	450	750	100% or S	
l	26.0	0	0	0	0	Ih-k (/uA)	-	600	100%	
	With heater negative to cathode, 250V shall be applied between heater and cathode, through a meter-protecting resistance of not more than 0.1 megohm.									

NOTES

1. Test voltage applied only for sufficient time to obtain a steady reading.
2. → These conditions shall be held for a minimum period of 2 minutes during which time no sparking shall occur.