ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC CV1409

Specification AD/CV1409/Issue 2. Dated 17.7.47. To be read in conjunction with K1001.	SECURITY Specn. Restricted | Valve Unclassified

TYPE OF VALVE:- H.F. Pentode.

CATHODE:- Directly heated.

ENVELOPE:- Glass : metallised.

PROTOTYPE:- SP2.

RATING

			Note
Filament Voltage	(V)	2.0	
Filament Current	(A)	0.18	
Max. Anode Voltage	(V)	150	
Max. Screen Voltage	(V)	150	
Max. Anode Dissipation	(W)	0.8	
Max. Screen Dissipation	(W)	0.3	
μ		1,200	A
gm	(mA/V)	1.8	A
Ra	(megohms)	0.7	A

INTERELECTRODE CAPACITIES (pF. approx.)

Cag1	< 0.01
Cac	6.0
Cg1c	11.0

MARKING

See K1001/4.

BASE

British 7-pin

Pin	Electrode
1	M
2	G1
3	G3
4	F
5	F
6	-
7	G2
TC	A

TOP CAP

See K1001/AI/D5.1.

DIMENSIONS

See K1001/AI/D1.

Dimension	Min.	Max.
A mm		135
B mm		46

PACKAGING

See K1005.

NOTES

A. At Va = Vg2 = 135 V, Vg = Vg3 = 0.

B. This valve must have substantially no grid current at Vg = 0. This characteristic will be checked at Type Approval and, possibly, on samples taken during manufacture, in the apparatus for which the valve is supplied.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test		Limits		No. Tested
	Vf (V)	Va (V)	Vg2 (V)	Vg3 (V)	Vg1 (V)			Min.	Max.	
a	2.0	-	-	-	-	If	(A)	0.16	0.20	100%
b	2.0	20 AC	20 AC	20 AC	20 AC	Ie	(mA)	12	-	100%
c	2.0	135	135	0	0	Ia	(mA)	3.05	6.85	100%
d	2.0	135	135	0	-1.75	Ia	(mA)	0.6	2.6	100%
e	2.0	135	135	0	-7	Ia	(µA)	-	46	100%
	1 megohm in anode circuit									
f	2.0	135	135	0	-1.75	Reverse grid current	(µA)	-	0.6	100%