VALVE ELECTRONIC CV278

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV278/Issue 4.
Dated : 9.4.54.
To be read in conjunction with K1001.

SECURITY	
Specification	Valve
Unclassified	Unclassified

→ Indicates a change

TYPE OF VALVE:- Double Triode with separate cathodes.
CATHODE:- Indirectly heated.
ENVELOPE:- Glass, unmetallised.
PROTOTYPE:- E1606 (6SN7GT with longer envelope).

MARKING

See K1001/4.

BASE

IO

See K1001/AIV/D2.

Pin	Electrode
1	G1
2	A1
3	C1
4	G2
5	A2
6	C2
7	H
8	H

RATING
(for single triode)

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.6	
Max. Anode Voltage	(V)	330	
Average Anode Current	(mA)	9.0	A
Mutual Conductance	(mA/V)	3.0	B
Amplification Factor		20	A
Max. Anode Dissipation	(W)	2.75	
Max. Cathode Current	(mA)	20	

CAPACITANCES (pF)

Triode I and II

Cag	4.1
Cgc	3.7
Cac	1.6

DIMENSIONS

See K1001/AI/D1.

Dimension	Min.	Max.
A mm	82.3	87.3
B mm	-	34

NOTES

A. At Va = 250 V, Vg = -8 V.

B. At Va = 90 V, Vg = 0.

TESTS

To be performed in addition to those applicable in K1001.

Unless otherwise stated the tests shall be applied to each triode separately.

	Test Conditions			Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg (V)		Min.	Max.		
a	6.3	-	-	Ih (A)	0.55	0.65	100%	
b	6.3	250	-8	Reverse Ig (μA)	-	2.0	100%	1
c	6.3	250	-8	Ia (mA)	5.5	12.5	100%	
d	6.3	250	-24	Ia tail (mA)	-	5	100%	
e	6.3	90	0	gm (mA/V)	2.4	3.6	100%	
f	6.3	250	-8	gm (mA/V)	2.0	3.1	100%	
g	6.3	250	-8	Amplification Factor	18	23	100% or S	
h	6.3	30		Ie (mA)	40	-	100%	

NOTE

1. During this test the valve shall be connected as a single triode.