VALVE ELECTRONIC

CV423

MINISTRY OF SUPPLY (D.C.D.)

Specification MAP/CV423 Issue 1 Dated 9.10.50	SECURITY		
To be read in conjunction with Kl001	Specification	Valve	
	UNCLASSIFIED	UNCLASSIFIED	

----> Indicates a change

TYPE OF VALVE - Double Tricde CATHODE - Indirectly her ENVELOPE - Glass - unmets PROTOTYPE - 25 SN7/GT (Spe	MARKING See K1001/4 BASE 1.0.					
RATING	Note		CONNECTIONS Pin Electrode			
Heater Voltage Heater Current Max. Anode Voltage Mutual Conductance Amplification Factor Max. Anode Dissipation Max. Cathode Current (per section) (V) (mA/V) (mA/V)	25.0 0.15 330 2.6 20.5 2.75 20.0	A A B B	1 2 3 4 5 6 7 8	Anod Cath Cont Anod	ode 2 rol Grid e ode l er	_
CAPACITANCES (pF) Cale Ca2e	To		DIMENSIONS See Kl001/Al/Dl			
Cgle Cg2e Calgl Ca2g2	be agreed		Dimensi A B	(m. m.)	Min.	Max. 84.3 33.5

NOTES

- A. Measured at Va = 250V., Vgl = -8V.
- B. Per Section.

TESTS

To be performed in addition to those applicable in K1601.

Test Conditions				Test		IAmi ts		No.	Note
						Min.	Max.	Tested	
T	٧b	Va	Vg					100%	
•	25	0	0	Th	(A)	.138	.162	or 8	
ъ	25	250	8	Ia	(m)	5.5	12,5	100%	1
•	25	250	-8	gm	(=4/V.)	2,075	3.125	100%	1
ā.	25	250	- 8	μ		18	25	100% or 8	1
•	25	250	-8	Reverse Ig	(pA)	-	2.0	100%	1
2	25	250	-24	Ia	(µA)	-	5.0	100%	1,2
2	25	90	0	2 2	=4/ \\\	2,0	3.6	100% or 8	1
h	25	30	39	Ia	(24)	40		100%	1
3				Insulation					3
k				Vibration				100%	4,5,

2.-

- 1. Tests applied to each section of the valve with the mused section earthed.
- 2. Valves may be accepted with anode currents up to 20ml. provided that the ga is not greater than 0.5ml/v. at Vgl = -24v.
- 3. When the valve is tested in equipment to Circuit Diagrem "A" (page 3) no recurring flash-over is permitted.
- the valve shall be vibrated in each of 3 planes (mutually perpendicular) with an amplitude of + .010" and the frequency varied continuously from 0 80 c.p.s. and back again over a period of 5 secs. The entput shall be continuously monitored throughout the test and any trace of excessive noise shall be cause for rejection. The test circuit shall be as shown in Circuit Diagram 'B' (Page 3) the output of which shall be taken to the input of a calibrated amplifier, the frequency response of which is sensibly flat over the range 50/5000 c.p.s. Under these conditions the input to the amplifier shall not exceed 150 mV. peak due to noise in the valve under test.
- 5. The test may be performed on any approved apparatus.
- 6. It is important that this test is performed once only on each valve.
- 7. Valves shall be subjected to tests "a-h" after test "k".

