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MINISTRY OF SUPPLY (D.C.D.)

# VALVE ELECTRONIC

CV423

Specification MAP/CV423	SECURITY		
To be read in conjunction with Klool	Specification UNCLASSIFIED	Valve UNCLASSIFIED	

### ----> Indicates a change

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TYPE OF VALVE - Double Triode  CATHODE - Indirectly heated			<u>Marking</u> See kl001/4			
ENVELOPE - Glass - unmeta PROTOTYPE - 25 SN7/GT (Spe	BASE I.O.					
RATING			CONNECTIONS			
			Pin I	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) (MA/V)	25.0 0.15 330 2.6 20.5 2.75 20.0	A A B B	2 Anor 3 Cati 4 Con 5 Anor 6 Cati 7 Hea	Control Grid 2 Anode 2 Cathode 2 Control Grid 1 Anode Cathode 1 Heater Heater		
CAPACITANCES (pF) Cale Ca2e	ES (pF)		<u>DIMENSIONS</u> See Kl001/Al/Dl			
Cgle	be		Dimension	Min.	Max.	
Calgl Ca2g2	agreed		A (m <sub>e</sub> m <sub>e</sub> ) B (m <sub>e</sub> m <sub>e</sub> )	-	84.3 33.5	

#### NOTES

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

TRSTS

To be performed in addition to those applicable in Kl001.

mank dan diki ma		Sant		Limits		No.	Note		
	Test Conditions		Test		Min.	Max.	Tested		
٦	Vb	Va.	Vg	eretin <del>enggani</del> in ligger kin enggyang och (1990 <del>in enggy light</del> engginn och				2001	
	25	0	0	Th	(A)	.138	.162	100% or S	
ъ	25	250	<del>-</del> 8	Ia	(mA)	5.5	12.5	100%	1
0	25	250	-8	gm	(mA/V.)	2,075	3.125	100%	1
đ	25	250	<b>-</b> 8	μ		18	23	100% or 8	1
•	25	250	-8	Reverse Ig	(µA)	***	2.0	100%	1
f	25	250	-24	Ia	(µA)	-	5.0	100%	1,2
g	25	90	0	gm	ma/v.	2,0	3.6	100% or S	1
h	25	30	30	Ia	(mA)	40		100%	1
j				Insulation					3
k				Vibration				100%	4.5.

#### NOTES

- 1. Tests applied to each section of the valve with the wased section earthed.
- Valves may be accepted with anode currents up to 20μA. provided that the gm is not greater than 0.5μA/V. at Vgl = ~24V.
- When the valve is tested in equipment to Circuit Diagram "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  $\pm$  .010" and the frequency varied continuously from 0 = 80 c.p.s. and back again over a period of 5 secs. The cutput 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".

