MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

VALVE ELECTRONIC **CV 25**

Specification MOSA/CV25	SECURITY	
	Specification	Valve
Issue 8 Dated 16.11.1953	UNCLASSIFIED	UNCLASSIFIED
To be read in conjunction with K.1001		

⟶ Indicates a change

TYPE OF VALVE - Triode

CATHODE - Directly heated, thoriated tungsten

ENVELOPE - Glass, unmetallised

PROTOTYPE - 4242A

MARKING

See K.1001/4

BASE

T4

See K.1001/A1V/D7

RATING			Note
Filament Voltage	(V)	10	
Filament Current	(A)	3.25	
Max. Anode Voltage	(kV)	1.25	
Max. Anode Dissipation	(W)	85	
Max. Grid Current	(mA)	50	
Anode Impedance	(Ω)	3100	A
Amplification Factor		12.5	A
Mutual Conductance	(mA/V)	4	A
Max. frequency for above ratings	(Mc/s)	6	
Max. Va for Freqn. of 30 Mc/s	(V)	600	
CAPACITANCES (pF)			
Cag		13	
Caf		4	
Cgf		6.5	

CONNECTIONS

Pin	Electrode
1	Grid
2	Filament
3	Anode
4	Filament

DIMENSIONS

See K.1001/A1/D1

Dimensions	Min.	Max.
Bmm.	-	59
Zmm.	-	172.5

NOTES

A. At Va = 1kV, Vg = -55V.

B. This valve should be mounted so that the plane of the filament is vertical.

CV25 To be performed in addition to those applicable in K.1001

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K.1001/A.III				CAPACITANCES (pF) Cag Caf Cgf	 - - -	 16.25 5.0 8.1	 6 per week	
	Vf (AC)	Va	Vg	Ia (mA)					
b	10	0	0	0	If (A)	3.0	3.4	100%	
c	10	1000	-	100	(Ia to be maintained steady for 5 mimutes. At the end of this period the reverse grid current must not be rising.) Reverse Ig at end of test (/uA)	 -	 15.0	 100%	
d	10	1000	-55	-	Ia (mA)	50.0	95.0	100%	
e	10	1000	-	50	/u	11.4	14.0	100%	
f	10	1000 reduced to 900	Vg set to give value of Ia found in (d) when Va = 950.		Ia change (mA)	26.0	37.0	100%	
g	10	250	0 to + 100	-	Ig	To be positive		100%	
h	10	Grid and anode strapped. Peak applied Volts = 750. See K.1001/A.V.			Peak Cathode Current (A)	2.0	-	100%	