

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

—————→ Indicates a change

TYPE OF VALVE - Triode		<u>MARKING</u>	
CATHODE		See K.1001/4	
- Directly heated, thoriated tungsten		<u>BASE</u>	
ENVELOPE		T ₄	
- Glass, unmetallised		See K.1001/A1V/D7	
PROTOTYPE		<u>RATING</u>	
- 4242A		<u>Note</u>	
Filament Voltage		<u>CONNECTIONS</u>	
Filament Current		Pin	Electrode
Max. Anode Voltage		1	Grid
Max. Anode Dissipation		2	Filament
Max. Grid Current		3	Anode
Anode Impedance		4	Filament
Amplification Factor		<u>DIMENSIONS</u>	
Mutual Conductance		See K.1001/A1/D1	
Max. frequency for above ratings		Dimensions	Min.
Max. V _a for Freqn. of 30 Mc/s		Max.	
<u>CAPACITANCES (pF)</u>		Bmm.	-
C _{ag}		Zmm.	59
C _{af}		-	172.5
C _{gf}			
<u>NOTES</u>			
A. At V _a = 1kV, V _g = -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	
b	Vf (ΔC)	Va	Vg	Ia (mA)	If (A)	3.0	3.4	100%	
	10	0	0	0					
c	10	1000	-	100	(Ia to be maintained steady for 5 minutes. At the end of this period the reverse grid current must not be rising.) Reverse Ig at end of test (μA)	-	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%	