

Specification:- MOS/CV444/Issue 2 TENTATIVE:- Dated 14.3.50 To be read in conjunction with K1001 excluding clauses 5.2: 5.8: 7.2	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	RESTRICTED	UNCLASSIFIED

<u>TYPE OF VALVE</u> - Triode <u>CATHODE</u> - Directly heated oxide coated. <u>ENVELOPE</u> - Glass-unmetalised PROTOTYPES - E1954 MZ1-75	<u>MARKING</u>	
	See K1001/4	
	<u>PACKING</u>	
	See K1005	
	<u>BASE</u> T.4	
	See K1001/AIV/D7	

<u>RATING</u>	Note	<u>CONNECTIONS</u>	
		Pin	Electrode
Filament Voltage (V)	10.0		
Filament Current (A)	2.0		
Max. Anode Voltage (kV)	1.25		
Max. Anode Dissipation (W)	75.0	1	Grid
Anode Impedance (Ω)	2200 A	2	Filament
Amplification Factor	13.0 A	3	Anode
Mutual Conductance (mA/V)	6.0 A	4	Filament

<u>CAPACITANCES (pF)</u>		<u>DIMENSIONS</u> See K1001/AI/DI		
Cag	14.3			
Caf	4.3			
Cgf	11.5			
		Dimension	Min.	Max
		B (mm)	-	65.0
		Z (mm)	-	172.5

- NOTES
- A. At $V_a = 1.0$ kV., $I_a = 75$ mA
- B. This valve should be mounted so that the plane of the filament is vertical

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested.
						Min.	Max.	
a	See K1001/AIII				<u>CAPACITANCES</u> (pF) Cag Caf Cgf	- - -	16.25 5.0 14.0	T.A.
	Vf (AC)	Va	Vg	Ia (mA)				
b	10.0	0	0	0	If (A)	1.37	2.5	100%
c	10.0	1000	-	100	Is to be maintained steady for two minutes. At the end of this period the reverse grid current must not be rising. Reverse grid current at end of test. (μA)	-	15	100%
d	10.0	1000	-	75	Vg (V)	48	72	100%
e	10.0	1000	-	50	μ	11.4	14.8	100%
f	10.0	1000	Vary	75	Gm (Note 1) (mA/V)	4.7	7.1	100%
g	10.0	125 (AC)	125 (AC)	-	Ic (Mean) (mA)	300	-	100%

NOTES

1. Obtained by varying Vg by not more than ± 2 volts from mean.