

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

Specification MOSA/CV.426 Issue 3 Dated 26/4/55 To be read in conjunction with K.1001, ignoring clauses 5.2 and 5.8	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

—————> Indicates a change

TYPE OF VALVE - High Vacuum, Half Wave, Rectifier			<u>MARKING</u>	
CATHODE - Indirectly Heated			See K.1001/4	
ENVELOPE - Glass, unmetallised			<u>BASE</u>	
PROTOTYPE - EY 51			None	
<u>RATING</u>			<u>DIMENSIONS AND CONNECTIONS</u>	
			Note	
Heater Voltage (V)			6.3	
Heater Current (A)			0.089	
<u>SINUSOIDAL INPUT</u> (up to 500 c/s)				
Max. No Load P.I.V. (kV)			15	
Max. Mean Rectified Current (mA)			0.5	
Max. Reservoir Capacity (μ F)			0.1	
Min. Limiting Resistance (M Ω)			0.1	
<u>PULSE INPUT</u> (See Note B)			A	
Max. Peak Input Voltage (kV)			10	
Max. No Load P.I.V. (kV)			17	
Max. Peak Rectified Current (mA)			80	
Max. Mean Rectified Current (μ A)			200	
Max. Reservoir Capacity (pF)			5000	
<u>CAPACITANCE</u> (pF)				
Ca,kh			0.8	

NOTES

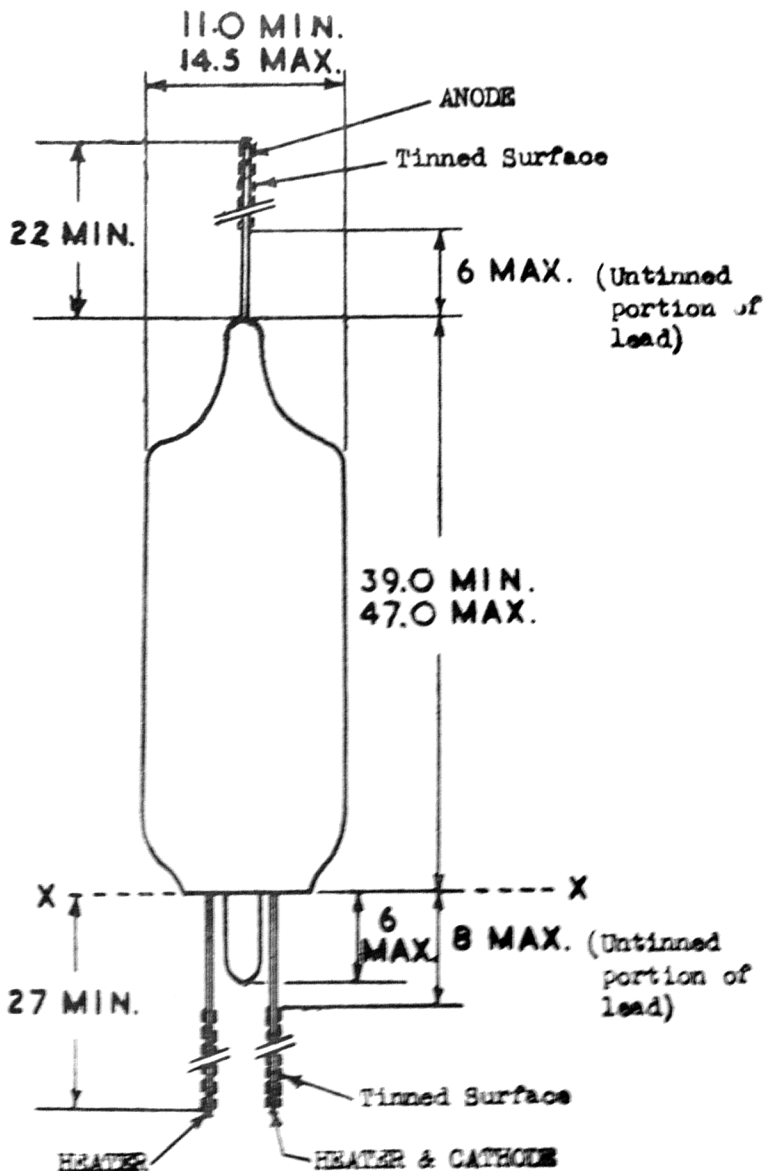
- A. For 50 c/s operation. At other frequencies capacitance to be inversely proportional to frequency.
- B. PRF = 10 kc/s, T_p = 5 μ seconds.
- C. The anode lead should not be soldered closer than 10 mm from the glass, and the filament leads not closer than 5 mm from the glass.

To be performed in addition to these applicable in K.1001

	Test Conditions		Test	Limits		No. Tested	Note
				Min.	Max.		
a	Vh	Va	Ih (A)	.084	.094	100% or 3	
	6.3	0					
b	6.3	100 D.C. max.	Ia (mA)	9.8	-	100%	
c	5.7	100 D.C. max.	Ia change in value from test (b)	-	10%	100%	
d	5.3	See K.1001/A V, Method I C charged to 750 volts	Emission (mA)	90	-	100%	
e	5.7	Frequency = 100 kc/s Load = 80 MΩ (max) Source Resistance = 100 kΩ Condenser = 0.001 μF P.I.V. = 17.5 kV (min.)	<u>VOLTAGE TEST</u> Run for one minute reject for softness or persistent flashover Load current (μA)	100		100%	

NOTES

Nominal Diameter
of Anode Lead
= 0.35 or 0.6



Nominal Diameter
of Heater Leads
= 0.35

ALL DIMENSIONS ARE IN MILLIMETRES

27.4.2.3.3