

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

Specification MOSA/CV82 Issue 7 Dated 26.11.53 To be read in conjunction with K1001, excluding clause - 5.3	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

—————→ Indicates a change

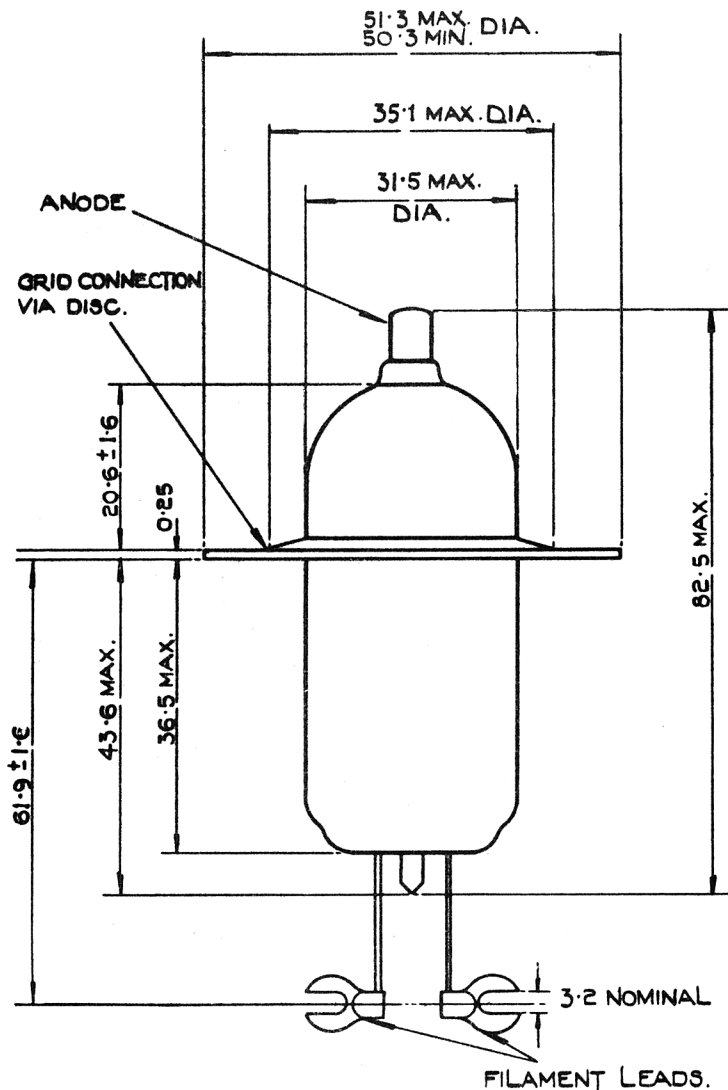
TYPE OF VALVE - Grounded grid triode oscillator		<u>MARKING</u> See K1001/4	
CATHODE - Indirectly heated		<u>BASE</u> None	
CONSTRUCTION - Glass with copper disc seal			
PROTOTYPE - S.27A			
<u>RATING</u>		Note	<u>PLUG TOP CAP</u> See K1001/A1/D5.2
Heater Voltage	(V) 4		<u>DIMENSIONS AND</u>
Heater Current	(A) 0.7		<u>CONNECTIONS</u>
Max. Anode Voltage	(V) 350		See page 3
Max. Anode Dissipation	(W) 6		
Efficiency as Oscillator at 600 Mc/s	(Mc/s) 20%		
Max. Operating Frequency	(Mc/s) 750		
Max. Grid Dissipation	(W) 0.5		
Amplification Factor	34	A	
Mutual Conductance	(mA/V) 6	A	

NOTEA. At $V_a = 250$, $V_g = -3$.

To be performed in addition to those applicable in K1001

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K1001/AIII Measured using adaptor Type 110 Ref. 10A/17826				Capacitances (pF)				
	Links to H.P.	Links to L.P.	Links to E						
	2	3	1,4,5,6,7,8,9,10,TC1,TC2		Cag	-	2.5		
	3	1	2,4,5,6,7,8,9,10,TC1,TC2		Cge	-	6.0	6 per week	
	2	1	3,4,5,6,7,8,9,10,TC1,TC2		Cae	0.4	0.7		
	Vh	Vg	Va	Ia(mA)					
b	4.0	0	0	-	Ih (A)	0.65	0.75	100%	
c	4.0	-	250	28	Ig at end of test and must not be rising (μ A)	-	5.0	100%	
	Maintained for 30 secs.								
d	4.0	-3	250	-	gm (mA/V)	3.75	-	100%	
e	4.0	-3	250	-	μ	22	45	100%	
f	4.0	Strapped - Peak applied volts 300v. 2 μ sec. pulse and 50 p.p.f.			Peak Io (A)	1.0	-	100%	

NOTES



ALL DIMENSIONS IN MILLIMETRES.

NOTES.

1. THE ANODE CAP & GRID DISC SHALL BE CONCENTRIC TO WITHIN 2.0 MM
2. THE SPADE CONNECTOR ON THE FILAMENT LEAD TO WHICH THE CATHODE IS CONNECTED SHALL BE PAINTED RED.