

CV 1062.

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ADMIRALTY SIGNAL ESTABLISHMENTMINISTRY OF AIRCRAFT PRODUCTION (D.C.D.)GENERAL POST OFFICE (ENGINEER-IN-CHIEF'S OFFICE)

<u>Specification :-</u>		<u>SECURITY</u>	
AD/5405,	Issue 4, Dated 7.12.44. To be read in conjunction with K1001.	<u>Specn.</u>	<u>Valve.</u>
D.C.D., W.T.1017,		Open	Open
W2027D			

<u>Valve Electronic</u>	
Navy	NT58/58A
Army	
R.A.F.	VT62
G.P.O.	POVT121A

<u>TYPE OF VALVE :-</u> Triode, R.F. Amplifier Oscillator.		<u>MARKING.</u>	
<u>CATHODE :-</u> Directly Heated, Thoriated Tungsten.		NT58 A.P.4889 or NT58A A.P.W580	
<u>ENVELOPE :-</u> Glass - Unmetallised.		VT62 10E/11443	
<u>COMMERCIAL PROTOTYPE :-</u> TY1-50, DET12.		POVT121A	
<u>RATING</u>		<u>BASE</u> B4 See K1001/AIV/D5.1.	
		<u>Note</u>	
Filament Volts	7.5	A A A	<u>Pin</u> <u>Electrode</u>
Filament Current (A)	3.2		
Max. Anode Volts	1250		1 No connection
Max. Anode Dissipation (W)	50		2 No connection
Amplification Factor	10		3 Filament
Anode Impedance (ohms)	5000		4 Filament
Mutual Conductance (mA/V)	2.0		TC1 Anode
Max. Frequency for above ratings (Mc/s)	100		TC2 Grid
<u>CAPACITANCES (pF.)</u>		<u>TOP CAPS AND DIMENSIONS</u>	
Caf (max.)	1.0	See Drawing on page 3.	
Cgf (max.)	2.5		
Cag (max.)	3.5		

NOTESA. $V_a = 1000 \text{ V}$, $I_a = 50 \text{ mA}$.

B. Valves type VT62 are to be supplied in matched pairs which must agree in grid voltage to within 1.5 V. in test 'd'. In addition to the normal marking, cartons are to be marked with the words "one pair of matched valves."

NT58, NT58A, VT62 & POVT121A/4/1.

NT58/58A

VT62

POVT121A

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		% Tested
						Min.	Max.	
a	See K1001/AIII.				Capacitances (pF.)			6 per week
	Links to H.P.	Links to L.P.	Links to E.					
	TC1	3,4.	1,2,5,6,7,8, 9,10,TC2.		i. Cgf	-	1.0	
	TC2	3,4.	1,2,5,6,7,8, 9,10,TC1.		ii. Cgf	-	2.5	
	TC1	TC2	1,2,3,4,5,6, 7,8,9,10.		iii. Cag	-	3.5	
b	Vf (V)	Vg (V)	Va (V)	Ia (mA)	If (A)	2.8	3.6	100% or S
	7.5 AC or DC.	0	0	0				
c	Adjusted AC or DC.	0	1000	10	Vf (V) (Emission Test)	-	4.0	100%
d	7.5 DC or 7.5 AC	Adjusted	800	60	Vg (V)	-30 -34	-50 -54	100%
e	7.5 AC or DC	Adjusted	800	50	Change in -Vg from value in test 'd' (V).	3	6	100%
f	7.5 AC or DC	Adjusted	1000	50	Change in -Vg from value in test 'e' (V).	18	24	100% or S
g	7.5 AC or DC	Adjusted	1000	50	Reverse Ig after 3 mins. (μA).	-	2.0	100%

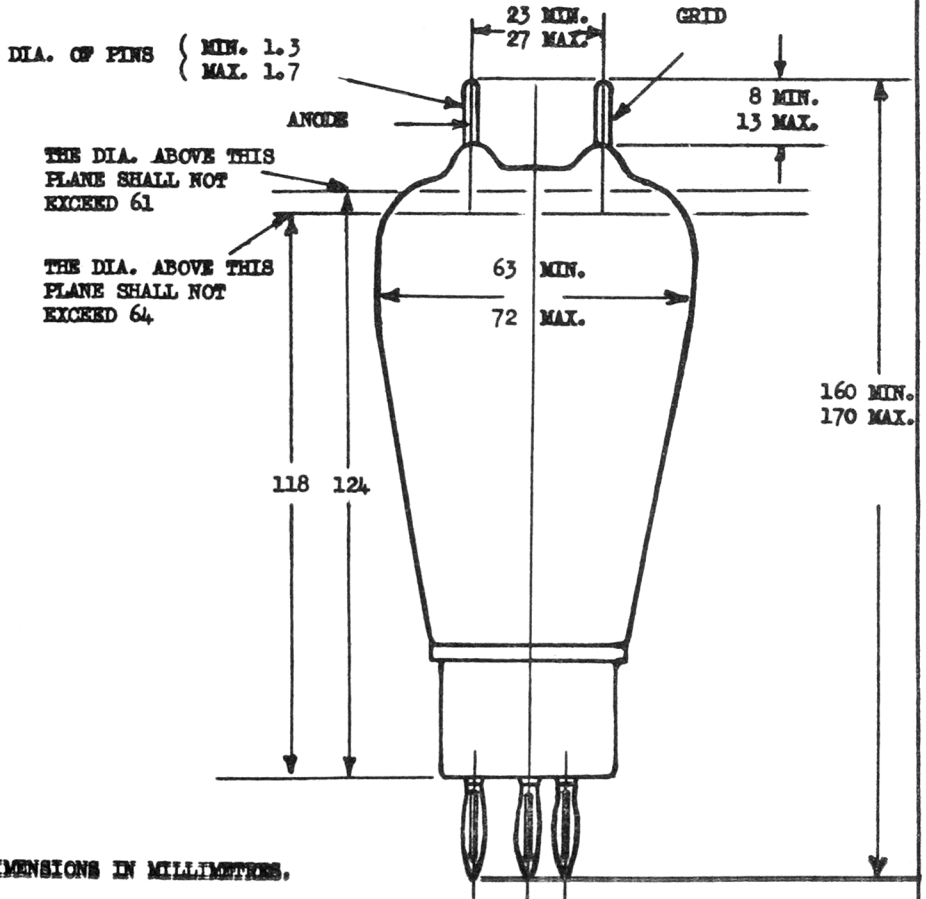
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NT58, VT62

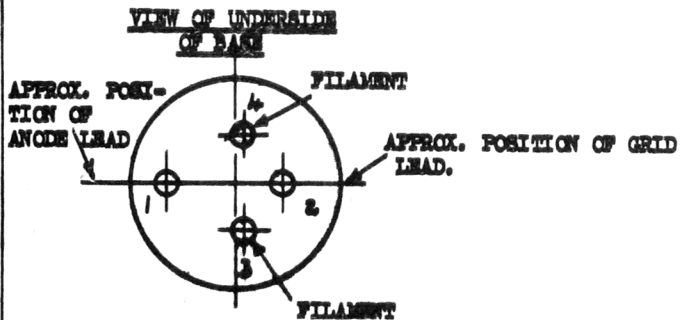
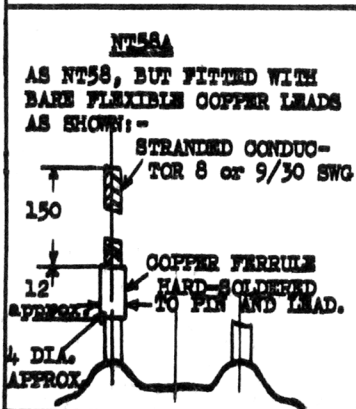
POVT121A

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DIMENSIONS AND CONNECTIONS



NOTE:-
ALL DIMENSIONS IN MILLIMETERS.



NOTE:- ANODE AND GRID LEADS TO LIE ON THE SAME SIDE OF THE CENTRE LINE OF THE VALVE AS PINS NOS. 1 & 2 OF BASE RESPECTIVELY, AND IN SAME PLANE.

NT58, VT62, & POVT121A/4/111