

GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV 1961/Issue 1	<u>SECURITY</u>	
Dated: November, 1952.	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Unclassified	Unclassified

—————> indicates a change

<u>TYPE OF VALVE:</u> Miniature HF Pentode sharp cutoff <u>CATHODE:</u> Indirectly Heated <u>ENVELOPE:</u> Glass <u>PROTOTYPE:</u> 12AU6		<u>MARKING</u> See K 1001/4		
<u>RATING</u>		<u>BASE</u> B 7G		
Heater Voltage (V)	12.6	A A A A B A	<u>Connections</u>	
Heater Current (A)	0.15		<u>Electrode</u>	
Max. Anode Voltage (V)	330		PIN	
Max. Screen Voltage (V)	165		1	G1
Max. Anode Dissipation (W)	3.3		2	G3 and IS
Max. Screen Dissipation (W)	0.7		3	H
Mutual Conductance (mA/V)	5.2		4	H
Max. Heater/Cathode Vltge. (V)	100	5	A	
		6	G2	
		7	C	
		<u>Dimensions</u> see K 1001/AI/D4		
<u>Capacitances (pF)</u>		<u>Dimensions</u>	<u>Min.</u>	<u>Max.</u>
C _{ae}	6.5	A mm	-	54.01
C _{ge}	6.6	B mm	-	19.05
C _{ag}	.0035	L mm	-	47.75
		F mm	34.04	42.16
<u>NOTES:</u>				
A Absolute Maximum Values				
B V _a = 250 Vg ₂ = 150 RC = 18ohms I _a = 10.8 mA				
C Measured with close fitting metal screen.				

TESTS

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No. Tested	Note
								Min.	Max.		
See K1001/AlIII							CAPACITANCES (pF)				
	Links to H.P.	Links to L.P.	Links to E.								
	1	5	2,3,4,6,7,8,9,10 TC.1 TC.2				Cag		.0035	T.A.	
a	1	2,3,4,6,7,8,9.	5,10, TC.1 TC.2				Cge	4.4	6.6	6	1
	5	2,3,4,6,7,8,9.	1,10,TC.1 TC.2				Cae	3.5	6.5	per week	
b	Vh (V)	Va (V)	Vg2 (V)	Vg3 (V)	Rc (ohms)	Vg1 (V)	Ih (A)	.138	.162	100% or S	
	12.6	0	0	0	-	0					
c	12.6	250	150	0	68	-	Ia (mA)	8.0	13.5	100%	
d	12.6	250	150	0	68	-	Ig2 (mA)	2.6	6.0	100%	
e	12.6	250	150	0	-	-1.5	Reverse Ig1 (μA)	-	1.0	100%	
f	12.6	250	150	0	68	-	gm (mA/V)	4.15	6.25	100%	2
g	12.6	250	150	0	-	-7	Ia (μA)	-	500	100%	
h	12.6	20	20 max.	20	0	20	Emission (mA)	60	-	100%	
<u>NOTE</u>											
1. Measured with a close fitting metal screen.											
2. Cathode resistor to be by-passed by 1000 uF condenser.											
3. Reference point for all potentials except heater and suppressor shall be the negative terminal of the cathode resistor.											

CV.1961/i/2