

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

Specification: G.P.O./CV409/ Issue 2 Dated: 3rd November 1949 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> Video amplifier tetrode		<u>MARKING</u> See K1001/4		
<u>CATHODE:</u> Indirectly heated				
<u>ENVELOPE:</u> Unmetallised glass				
<u>PROTOTYPE:</u> A1820				
<u>RATING</u>		<u>BASE</u> B8G (Metal sole plate) <u>CONNEXIONS</u>		
		<u>NOTE</u>		
Heater voltage (V)	6.3	A	<u>PIN</u>	<u>ELECTRODE</u>
Heater current (nominal) (A)	0.95		1	Heater
Max. anode voltage (V)	300		2	Anode
Max. screen voltage (V)	300		3	G2
Max. anode dissipation (W)	10		4	Screen
Max. screen dissipation (W)	2		5	Screen
Mutual conductance (mA/V)	10.5		6	G1
		7	Cathode	
		8	Heater	
		<u>DIMENSIONS</u> See K1001/A1/D1		
<u>CAPACITANCES</u> (pF)		<u>DIMENSION</u>	<u>MIN.</u>	<u>MAX.</u>
C _{ae}	8.5	A (mm)	-	86
C _{ge}	12.0	B (mm)	-	37
C _{ag}	0.05			
<u>NOTE</u>				
A. Measured with V _a = 250, V _{g2} = 250, and I _a = 40 mA				

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested	Note	
								Min.	Max.			
a	See K1001/AIII						<u>CAPACITANCES (pF)</u>					
	Links to H.P.	Links to L.P.	Links to E									
	2	1,3,4,5, 6,7,8.	-					1. Cae		9.5	6 per week	
	6	1,2,3,4, 5,7,8.	-					2. Cge		15.0	6 per week	
	2	6	1,3,4,5, 7,8.				3. Cag		0.05	T.A.		
	Vh	Va	Vg2	Vg1	Ia(mA)	Ik(mA)						
b	6.3	0	0	0	0		Ih (A)	0.85	1.05	100%		
c	6.3	250	250		40		Vg (V)	-2.65	-6.2	100%		
d	6.3	250	250		40		I _{g2} (mA)		11	100%		
e	6.3	250	250		40		g _m (mA/V)	8.4	12.6	100%		
f	6.3	250	250		40		Reverse I _{g1} (μA)		1.5	100%		
g	6.3					150	V _a , V _{g1} , V _{g2} (V)		20	100%		
h	6.3	250	250		0.2		V _{g1} (V)	-24		100%		