

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

VALVE ELECTRONIC

Specification AD/CV2721/Issue 2 Dated: 23.4.53. To be read in conjunction with K1001	SECURITY Specification UNCLASSIFIED   Valve UNCLASSIFIED
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→ indicates a change

<b>TYPE OF VALVE</b> - L.F. Pentode  <b>CATHODE</b> - Indirectly heated  <b>ENVELOPE</b> - Glass unmetallised  <b>PROTOTYPE</b> - EL81				<b>MARKING</b> See K1001/4	
				<b>PACKAGING</b> See K1005	
				<b>BASE</b> B9A	
<b>RATING</b>				<b>CONNECTIONS</b>	
				Pin	Electrode
Heater Voltage (V)	6.3	Note	1	Ic	
Heater Current (A)	1.05		2	g1	
Max. Anode Voltage (V)	330		3	K	
Max. Anode (Ia = 0) (V)	550	B	4	H	
Max. Peak Anode Voltage (V)	7000	B	5	H	
Max. Screen Voltage (V)	330	B	6	Ic	
Max. Screen Voltage (I <sub>g2</sub> = 0) (V)	550	B	7	Ic	
Max. Anode Dissipation (W)	8.8	B	8	g2	
Max. Screen Dissipation (W)	5	B	9	g3	
Max. Total Anode and Screen Dissipation (W)	11	B	T.C.	A	
Max. Cathode Current (mA)	200	B			
V <sub>hc</sub> (V)	110	B			
Mutual Conductance /U <sub>g1/g2</sub> (mA/V)	4.6	A			
	5				
				<b>DIMENSIONS</b> See K1001/A1/D1 <sub>1</sub>	
<b>CAPACITANCES (pF)</b>				Min.	Max.
C in	15		A	-	82 mm
C out	6		B	-	22 mm
C ag (Max.)	1		L	-	75 mm
<b>NOTES</b>					
A. Measured at Va = Vg2 = 250 Ia = 32 mA					
B. Absolute maximum value					

TESTS

	Test Conditions						Test	Limits		No. Tested.	Note
	Vh	Va	Vg1	Vg2	Vg3	Rk (ohms)		Min.	Max.		
a.	6.3	-	-	-	-	-	Ih (mA)	950	1150	100%	
b.	6.3	35	35	35	35	-	Ie (mA)	250	-	100%	
e.	6.3	100	-2	100	0	-	Ia (mA)	109	177	100%	
→ d.	6.3	100	-10	100	0	-	Ia (mA)	24	60	100%	
e.	6.3	100	-35	100	0	-	Ia (uA)	-	15	100%	
f.	6.3	100	+30	100	0	820	Ig2 (mA)	-	3.6	100%	
g.	6.3	100	+30	100	0	820	-Ig1 (uA)	-	1.5	100%	
h.	6.3	215	0	215	0	185	-Ig1 (uA)	-	1.5	100% or S	