

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV127/Issue 4. Dated 15.11.46. To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.		<u>SECURITY</u>	
		<u>Specn.</u> Restricted	<u>Valve</u> Unclassified
<u>TYPE OF VALVE</u> :- Double disc-seal transmitting triode.		<u>MARKING</u>	
<u>CATHODE</u> :- DH thoriated tungsten centre-tapped for HF connection.		See K1001/4.	
<u>ENVELOPE</u> :- Glass, unmetallised.		Additional Marking:- Serial No.	
<u>PROTOTYPE</u> :- S30A.			
<u>RATING</u>		Note	<u>BASE, DIMENSIONS AND CONNECTIONS</u>
			See Page 3.
Filament Voltage (V)	6.3	A A	<u>PACKING</u> See K1001/7.
Filament Current (A)	2.0		
Amplification Factor	23		
Mutual Conductance (mA/V)	3.0		
Max. DC Anode Voltage (kV)	1.0		
Max. DC Anode Current (mA)	60		
Max. Anode Dissipation (W)	4.0		
Max. DC Grid Current (mA)	15		
Approx. power at 50 cm. (W)	15		
<u>CAPACITANCES (pF).</u>			
C _{ag} (max.)	5.5		
C _{af}	0.2		
C _{gf} (max.)	6.0		
<u>NOTE</u>			
A. At V _a = 500, V _g = -5 V.			

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested	Note
	Vf (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.		
a	6.3				If (A)	1.8	2.2	100% or S	1
b	6.3	1000	Adjusted	40	Reverse Ig (mA)	-	5.0	100%	2
c	6.3	1000	= x (say)	40	Vg (V)	-7.5	-16.5	100%	
d	6.3	800	= y (say)	40	x - y (V)	5.0	7.0	100%	
e	6.3	1000	2 V. more negative than value in test 'c'.	Read = a (say)	Ia change from value in test 'c' (40 - a) (mA)	4.0	8.0	100%	
f	6.3	500	500		Peak Ie (A)	0.75	-	100%	3
g					Capacitances (pF)				
					C _{ag} .	-	5.5	6	
					C _{af}	0.1	0.35	per	
					C _{gf}	-	6.0	week	

NOTES

1. For this and all subsequent tests, 50 c/s AC filament heating shall be used and the common return of the grid and anode circuits shall be connected to the centre tap of the filament transformer secondary.
2. At the end of a 3-minute test the reverse Ig shall not exceed the value specified and shall not be rising. During this and all subsequent tests except 'g' cooling fins of not less than 15 sq. ins. equivalent surface area shall be firmly clamped to both anode flange and grid cylinder.
3. This test shall be performed by discharging a condenser charged to the specified voltage between anode and grid strapped and the centre tap of the filament transformer. The peak discharge current shall not be less than the value specified. See K1001/AV.

