

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV384/Issue 2. Dated 6.12.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

→ Indicates a change.

<u>TYPE OF VALVE</u> :- Power Amplifier Triode.			<u>MARKING</u>		
<u>CATHODE</u> :- Directly Heated.			See K1001/4.		
<u>ENVELOPE</u> :- Glass.			<u>BASE</u>		
<u>PROTOTYPE</u> :- DET5.			B4 See K1001/AIV/D5.1.		
<u>RATING</u>		Note	Pin	Electrode	
Filament Voltage (V)	4.0		1	Anode	
Filament Current (A)	2.0		2	Grid	
Max. Anode Voltage (V)	600		3	Filament	
Max. Anode Dissipation(W)	25		4	Filament	
Mutual Conductance (mA/V)	7.5	A	<u>DIMENSIONS</u>		
Amplification Factor	9.5	A	See K1001/AI/D1.		
Anode Resistance (Ω)	1270	A	Dimension	Min.	Max.
			A mm	-	170
			B mm	-	67
			<u>PACKAGING</u>		
			See K1005.		
<u>NOTE</u>					
A. With $V_a = 100$ V, $V_g = 0$.					

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.	
a	4.0 A.C. or D.C.				If (A)	1.8	2.2	100% or S
b	4.0 A.C. or D.C.	400	Ad- justed	62.5	i. Vg (V)	-25	-36	100%
	For 10 mins. Vg to be checked every minute.				ii. Variation in Vg after 1st min. (V)	-	-2.0	100%
					iii. Reverse Ig at end of test (μ A)	-	4.0	100%
c	4.0 A.C. or D.C.	400	+0.5	62.5	gm (mA/V)	5.0	10.0	100%
d	Valve to be run in stage 5 of the transmitter SWB8 for 15 minutes, under conditions of max. drive, i.e:-				<u>Operational Test.</u> Valve must operate satisfactorily and not deteriorate during the test.			100%
	Stage	Va (V)	Ia (mA)	Ig (mA)				
	4	450	76.0	5.4				
	5	450	60	60				