Page 1. (No. of pages: - 2) ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

VALVE ELECTRONIC CVI147

	ADMIRALTY SIGNAL & RADAR ES	ELECTRONIC VII4/						
	Specification AD/CV1147/Isse Dated 28.4.53 To be read in conjunction w	Unclassi	SECURITY Specification Valve Unclassified Unclassified					
•	> In	dicate	s a ch	ange				
	TYPE OF VALVE: - Hot-cathode filled, grid		MARKING See K1001/4.					
	controlled tube. CATHODE:- Indirectly	BASE USM ₄ B						
	ENVELOPE: - Glass. PROTOTYPE: - BT5.		•	See Kl001/AIV/Dl.1 Pin Electrode				
	RATING		Note	1 2		Heater Cathode		
	Heater voltage (V) Heater current (approx.) (A) Max. peak forward	5.0 5.0	E	3 4 TC]	Grid Heater Anode	•	
	anode voltage (V) Max. peak anode	1000		Pins 2 tricall	2 and 4 are elec- lly connected			
>	Minimum grid control ratio	63	A	inside the valve <u>TOP CAP</u>				
	Ambient temperature range (°C)	15-40	В	Dimensio	sion Min. Max		Max.	
›	Max. peak anode current at frequen- cies below 25 c/s. (A)		_	Dia. mm. Length m excludin			2 .7	
	NOTES	DIMENSIONS See K1001/A1/D1						
	A. Va = 500V. This ratio	applies		Dimensio	n	Min.	Max.	
	when the series grid re does not exceed 10,000	sistan		A mm. B mm.		184 79•4	197 81	
	B. Ambient temperature is as the temperature meas	đ	PACKING See Kl 005					
	with a thermometer with its bulb or junction placed 2 ins. from the glass bulb of the valve, at the cathode end and on a level with the top of the base.							
	C. During testing the valve is to be mounted vertically with anode uppermost in an enclosure screened from draughts, with ambient temperature between 15°-30°C. except where otherwise stated.							
>	D. Before operation or test, the valve must be preheated for 10 mins. with $Vh = 5V$.							
	E. Measured at valve pins.				C	V1147/	5/ i	
	2.4368.R.							

TESTS

To be performed in addition to those applicable in Kl001. See Notes B, C, D and E.

		Test Conditions				Limits		No.	
		Vh (V)	Va (V)	Vg (V)	Ia (A)	Test	Min.	Max.	Tested
>	a	5.0	-	-		Ih (A)	4.2	5.2	100%
>	b	to an	+ive vol node thro increased ge occurs	ugh 250 until	O ohms	Va max. prior to striking of discharge (V)	-	70	100%
	C	soure sists	supplied ce through ance which do giv	h serie h is ad	s re-	Va (after 1 min.) (V)	-	16	100%
>	đ	2500 bias ohms	500 es anode ohms. N applied , and red narge occ	egative through uced un	gr i d 1000	Min. negative grid bias prior to striking of discharge (V)	0	8	100%
>	е	bias megoh	500 n test 'd applied nms, and dischar	through reduced	10	Change in grid bias from value in test 'd' (V)	-	3	100%