VALVE ELECTRONIC CV1247

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1247/Issue 3.	SECURITY			
Dated 16.6.47.	Specn.	<u>Valve</u> Unclassified		
To be read in conjunction with K1001.	Restricted	unclassified		

CATHODE:- Di ENVELOPE:- GJ	Transmitting Triode. Directly Heated, Pure Tungsten. Glass, double-ended bulb.			See K1001/4. CONNECTIONS Flexible Leads - See Note B. Grid At one end. Filament			
RA	<u>TING</u>		Note	Anode - Colours:- FF G	At o		
Filament Voltage Filament Current Minimum Total Emission	(V) (A) (mA)	14.0 6.0 300		DII See K1001/	MENSIONS	Wax.	
Maximum Anode Dissipation Maximum Anode Voltage Mutual Conductance Amplification Factor	(W) (mA_V)	150 2000 2.4 6.6	A A	A mm B mm C mm F mm H mm	230 117 53 25	250 124 57 - 125	
Anode Impedance (ohms) 2750			A	<u>P.</u> See K1005.	ACKING.		

NOTES

- A. At Va = 1000 V, Vg = 0.
- B. LEADS. The leads are to be made up of four strands of 0.33 mm dia. copper or equivalents, and are to be 330 mm in free length. They are to be suitably insulated to within 50 mm of the free ends and coloured as above. They shall be bound back to the necks of the valve, the leads at each end being equally spaced around the neck. In the re-entrant part of the seal the leads are to be protected with glass beads, or glass tubing. The insulation on the leads must not be liable to slip; lead stops may be employed. The methods actually used will be checked at Type Approval or as necessary.

CV1247

TESTS

To be performed in addition to those applicable in K1001.

	Te	st Con	ditio	ng	T		— Т			
	Vf	Va	Vg	Ia	1	Test		Limits		No.
<u> </u>	(V)	(v)	(V)	(mA)				Min.	Max.	Tested
a	Insu 250	lation V or 50	meas V OC	ered with test set.		lation (MA) Anode to filament.)	150	-	100%
		•			ii.	Anode to grid.		150	· -	100%
		` ,			iii.	Grid to filament.		150	-,	100%
Ъ	14.0				If		(A)	5.6	6.4	100%
0	14.0	14 kV peak inv.			Test			be no of bl glow	lue or rior-	Type Appro- val.
đ:	14.0	1200	Ad- jus- ted.	125	i.	<u>lpation</u> . Vg (Variation	(v)	- 50	-100	100% 100%
	For 1 check	O minu ed eac	tes, h min	Vg ute.	iii.	of Vg after first min. (Reverse Ig at end of	(v)	-	5	100%
					·	test (p	(A).		20	

NOTE

1. The valve is accepted on the understanding that it will perform satisfactorily during a 5 minute oscillatory test with Vf = 14 V and Va adjusted to give dissipations as follows:-

Frequency (Kc/s).	Wa (W)		
3,000	150		
15,000	115		
30,000	100		
60,000	70		