Page 1. (No. of pages: - 2)

ADMIRALTY SIGNAL ESTABLISHMENT



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

TYPE OF VALVE:- Transmitting Triods. CATHODE:- Directly Heated,			MARKING See K1001/4.			
Pure Tungsten. ENVELOPE:- Glass, double-ended			CONNECTIONS Flexible Leads - See Note B.			
	bulb.			Grid Filament		ne end.
RATING			Wa ka	Anode - At other end. Colours:- FF : Yellow		
	(T)		Note	G A	: Gree : Red	n
Filament Voltage Filament Current Minimum Total	(A)	14.0 6.0		<u>DI</u> See K1001/	MENSIONS AI/D3.	
Emission	(mA)	300		Dimension	Min.	Max.
Maximum Anode Dissipation Maximum Anode Voltage	(W) (V) 2	150 2000		Amm Bma Cmm	230 117 53	250 124 57
Mutual Conductance (m/ Amplification Factor		2.4	A A	Fmm Hmm	25 -	125
Anode Impedance (of	nms) 2	2 7 50	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.

TESTS

To be performed in addition to those applicable in K1001.

	Te	st Cond	lition	ns	1			
	Vf	Va	Vg	Ia	Test	Lim	its	No.
	(V)	(v)	(v)	(mA)		Min.	Max.	Tested
æ	Insulation measured with 250 V or 500 V test set.			150 150 150	-	100% 100% 100%		
					filament.			
Ъ	14.0				If (A)	5.6	6.4	100%
О	14.0	AC 14 kV peak inv.			High Voltage Test.	be n of b glow	lue or rior-	Type Appro- val.
đ	14.0	1200	Ad- jus- ted.	125	Dissipation. i. Vg (V) ii. Variation	- 50	-100	100% 100%
	For 10 minutes, Vg checked each minute.		of Vg after first min. (V) iii. Reverse Ig at end of test (MA)		5 20	100%		

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).	$\underline{\text{Wa}}$ (W).
3,000	1 50
15,000	1 1 5
30,000	100
60,000	70