ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC **CV1258** (NU1)

Specification AD/CV1258/Issue 3. Dated 18.7.47. To be read in conjunction with K1001, ignoring clauses:- 5.2. and 5.8.	SECURITY Specn. Restricted	 Valve. Unclassified

TYPE OF VALVE:- Half-wave rectifier.
CATHODE:- Directly heated - pure or thoriated tungsten.
ENVELOPE:- Glass, double-ended bulb.

RATING

			Note
Filament Voltage (Normal)	(V)	14.0	
Max. Filament Voltage	(V)	14.5	
Filament Current	(A)	5.0	
Total Emission	(A)	0.24	
Max. Anode Dissipation	(W)	150	
Max. Va Peak Inverse	(kV)	14.0	

MARKING

See K1001/4.

DIMENSIONS & CONNECTIONS

LEADS: See Note A
FILAMENT: Yellow
ANODE: Red
See K1001/AI/D3.

Dimension	Min.	Max.
A mm	230	250
B mm	117	124
C mm	53	57
F mm	25	-
H mm	-	125

PACKAGING

See K1005.

NOTE

A. The external anode lead is to be composed of four strands of 30 S.W.G. copper wire laid up together and securely held under the washer of the cap. The external filament leads are to consist of two flexible 7/38 S.W.G. stranded copper wires welded, in parallel, to the platinum in the seals. (In each case approved alternatives may be used). All leads are to be 330 mm in free length, and 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 method actually used will be checked at type approval or as necessary.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
	Vf (V)	Va (V)	Ia (A)		Min.	Max.	
a	Insulation (anode/filament) measured with 250 or 500 V test set.			Insulation anode-filament (MΩ)	150	-	100%
b	14.0	-	-	If (A)	4.5	5.0	100%
c	14.0	14 kV peak Inverse (A.C.)		High Voltage	No blue glow or deterioration must occur.		100%
d	Adjusted For 10 minutes. Vf to be set at a value not greater than 14.5 volts.	400	0.38	Dissipation	Ia to be steady during last three minutes		100%