ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC

CV1261 (NU5)

Specification AD/CV1261/Issue 3.
Dated 18.7.47.
To be read in conjunction with K1001, ignoring clauses:- 5.2 and 5.8.

SECURITY	
Specn.	Valve.
Restricted	Unclassified

TYPE OF VALVE:- Half-wave rectifier.
CATHODE:- Directly heated pure tungsten.
ENVELOPE:- Glass-double-ended bulb.
PROTOTYPE:- RX3 - 120.

RATING			Note
Filament Voltage (normal)	(V)	13.5	
Max. Filament Voltage	(V)	14.0	
Filament Current	(A)	9.7	
Total emission	(A)	0.6	
Max. Anode dissipation	(W)	250	
Max. Va peak Inverse	(kV)	14	

MARKING
See K1001/4.

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

Dimension	Min.	Max.
A mm	253	257
B mm	117	124
C mm	53	57
F mm	35	-
H mm	-	125

PACKAGING
See K1005.

NOTE

A. The external anode lead is to be composed of eight strands of copper wire 0.3 mm in diameter, and the external filament leads of sixteen strands of copper wire 0.3 mm in diameter, or approved alternatives. 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 to be 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/Fil) measured with 250 or 500V test set.			Insulation Anode-filament (Megohms)	150	-	100%
b	13.5	-	-	If (A)	9.1	10.3	100%
c	13.5	14kV peak Inverse (AC)		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 14.0 volts.	2000	0.125	Dissipation	Ia to be steady during last 3 minutes.		100%