VALVE ELECTRONIC **CV 1612**

GENERAL POST OFFICE: E-IN-C (W) (POVT 19)

Specification: G.P.O./CV1612/Issue 2 Dated: 13-5-48 To be read in conjunction with K 1001	SECURITY Specification: Restricted Valve: Restricted

indicates a change

TYPE OF VALVE: Transmitting triode
CATHODE: Directly heated thoriated tungsten filament
ENVELOPE: Unmetallised glass, double-ended
PROTOTYPE VT9B

MARKING
See K1001/4
Additional markings required (See Notes A & B)
Serial No. .....
Filament Volts .....

RATING

		As Marked	Note
Filament voltage	(V)		B
Filament current	(A)	15.5	
Max. anode voltage	(kV)	12.5	
Max. anode dissipation	(W)	800.0	
Amplification factor		50.0	D
Anode impedance	(ohms)	30,000	D
Max. frequency of operation	(Mc/s)	10.0	

BASE
None

CONNEXIONS
The anode lead shall be brought out at the opposite end of the valve from the filament leads. Grid connection to be positioned as K1001/A1/D3, but a lead only required. All leads shall be suitably insulated and the loose ends shall be not less than 12 inches in length.

DIMENSIONS
See K1001/A1/D3

Dimension		Min.	Max.
A	(mm)	-	420
B	(mm)	-	185
C	(mm)	-	75

PACKING
See K1001/7.3

NOTES

A. The Serial Numbers will be allotted by the Inspecting Officer
B. The Marked Voltage is defined on page 2, test (a)
C. It is not essential that the additional markings shall appear within the frame
D. Measured with Va = 8 kV, and Ia = 90 mA.

The tests shown in Table I, or alternatively, those shown in Table II, shall be performed in addition to those applicable in K1001

Table I (for A.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No.	
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.	Tested	Note
(a)	Read	-	-	-	Vf required for filament current of 15.5A To be known as "Marked Voltage" (V)	14.5	16.5	100%	
→ (b)	M.V.	10	Read	100	Reverse Ig (μA)	-	45.0	100%	1
(c)	M.V.	4/8	Adjust	90	μ	45.0	55.0	100%	
(d)	M.V.	6	-	Read	Ia (mA)	100.0	140.0	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No.	
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.	Tested	Note
(a)	Read	-	-	-	Vf required for filament current of 15.5A To be known as "Marked Voltage" (V)	14.5	16.5	100%	
→ (b)	M.V.	10	Read	100	Reverse Ig (μA)	-	45.0	100%	1
(c)	M.V.	4/8	Adjust	90	μ	45.0	55.0	100%	
→ (d)	M.V.	6	7.5	Read	Ia (mA)	100.0	140.0	100%	

NOTE

1. The duration of test (b) shall be 15 minutes and the reverse grid current shall not be rising at the end of the test.