# VALVE ELECTRONIC CV 1648

### GENERAL POST OFFICE: E-IN-C (W)

(POVT 56)

Specification: G.P.O./EV 1648/Issue 1	SECURITY			
Dated: 6-8-46	Specification	<u>Valve</u>		
To be read in conjunction with K 1001	Restricted	Restricted		

\_\_\_\_\_ indicates a change

RATING  Filament current  (A) Nominal filament voltage (V) Max. anode voltage (V) Max. anode current (mA) Max. anode dissipation (W) Max. anode dissipation (W) Max. anode voltage at 30 Mc/s (V) Max. anode voltage at 30 Mc/s Max. anode impedance (ohms  CAPACITANCES (pF) Cag (nominal)  Cae  (n	TYPE OF VALVE: Triode  CATHODE: Directly heated  ENVELOPE: Unmetallised glass  PROTOTYPE 4205E			MARK: See K 10			
Nominal filament voltage (V) 4.5  Max.anode voltage (V) 400  Max.anode current (mA) 50.0  Max.anode dissipation (W) 15.0  Max.operating frequency (Mc/s) 30  Max.anode voltage at 30 Mc/s (V) 300  Amplification factor 6.7  Anode impedance (ohms 3500  CAPACITANCES (pF)  Cag (nominal) 4.8  Cge (nominal) 5.2  Canada (mm) - 110	RATING		Not <b>e</b>			2	
Max.anode current (mA) 50.0 A  Max.anode dissipation (W) 15.0 A  Max.operating frequency (Mc/s) 30  Max.anode voltage at 30 Mc/s (V) 300  Amplification factor 6.7 B  Anode impedance (ohms 3500 B  CAPACITANCES (pF)  Cag (nominal) 4.8  Cge (nominal) 50.0 A  See drawing on page 2  DIMENSIONS  See K 1001/Al/Dl  Dimension Min. Max.  A (mm) - 110	Nominal filament voltage (V)	4.5		500 44 44 41 18		-	
Max.anode voltage at 30 Mc/s (V)  Amplification factor  Anode impedance (ohms 3500 B  CAPACITANCES (pF)  Cag (nominal)  Cge (nominal)  Cge (nominal)  Capacitance (ohms 3500 B  DIMENSIONS  See K 1001/A1/D1  Dimension Min. Max.  A (mm) - 110	Max.anode current (mA) Max.anode dissipation (W)	50.0 15.0	A				
Capacitances (pf)   See K 1001/A1/D1	Max.anode voltage at 30 Mc/s (V)	300	В				
Cge (nominal) 5.2 Dimension Min. Max.  A (mm) - 110	CAPACITANCES (pF)		В	with a man of the control of the con			
A (mm) - 110				Dimension	Min.	Max.	
1 - □ D (MM) ( □ 1 b)	(	5.2 3.3		A (mm) - ]		110 65	

#### NOTES

- A. The maximum frequency of operation for these ratings is 15 Mc/s.
- B. Measured with Va = 250, and Vg = -15 (D.C. filament)

TESTS

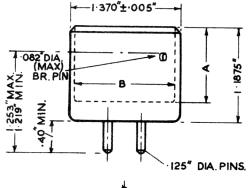
To be performed in addition to those applicable in K 1001

	TES!	r conditi	ONS			LIMITS			
	If (A) (DC)	Va	Vg	TEST	Min.	Max.	No. Tested	Note	
(a)	1.6	-	-	٧f	(V)	4.0	5.0	100%	
(b)	1.6	350	<b>-</b> 15	Reverse Ig	(µA)	•	5.0	100%	1
(c)	1.6	250	<b>-</b> 15	Ia	(mA)	17.0	25.0	100%	
(d)	1.6	250	<b>-</b> 15	μ		6.0	7•4	100%	
(e)	1.6	250	<b>-</b> 15	Ra	(ohms)	3000	4500	100%	

#### BOTE

1. The duration of test (b) shall be 2 minutes and the reverse grid current shall not be rising at the end of the test.

## BAYONET CAP 4-PIN BASE, AND CONNEXIONS (NON-STANDARD)



NOTE: INTERNAL DIMENSIONS A & B
TO SUIT MANUFACTURERS'
REQUIREMENTS.

