

VALVE ELECTRONIC **CV1717**

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

(POVT 169)

Specification: G.P.O./CV 1717/Issue 1 Dated: 30-8-46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:</u> Pentode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE</u> 4307A			<u>MARKING</u> See K 1001/4		
<u>RATING</u>		Note	<u>BASE</u> U.S. Medium 5-pin (U.S.M5) with bayonet locating pin		
Filament voltage (V)	5.5		<u>CONNEXIONS</u>		
Nominal filament current (A)	1.0		Pin	Electrode	
Max. anode voltage (V)	500		1	Filament	
Max. screen voltage (V)	300		2	G2	
Max. anode dissipation (W)	15.0		3	G1	
Mutual conductance (mA/V)	4.2		4	G3	
			5	Filament	
			T.C	Anode	
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u> See K 1001/A1/D5.1		
Cag (nominal)	0.55		<u>DIMENSIONS</u> See K 1001/A1/D1		
Cae (nominal)	12.0		Dimension	Min.	Max.
Cge (nominal)	15.0		A (mm)	-	153
			B (mm)	-	54
This valve type is obsolete and this specification is for record purposes only.			<u>NOTE</u> Measured with $V_a = V_{g2} = 250$, and $V_{g1} = -20$		

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS						TEST	LIMITS		No. Tested	Note
	Vf	Va	Vg1	Vg2	Vg3	Ia(mA)		Min.	Max.		
(a)	5.5	-	-	-	-	-	If (A)	0.95	1.15	100%	
(b)	5.5	250	Adjust	250	0	60	Reverse Ig1 (μ A)	-	5.0	100%	1
(c)	5.5	250	- 20	250	0	Read	Ia (mA)	35.0	65.0	100%	
(d)	5.5	250	- 20	250	0	-	Ig2 (mA)	-	8.0	100%	
(e)	5.5	250	-20	250	0	-	gm (mA/V)	3.4	5.0	100%	
(f)	5.5	250	-20	250	-20	Read	Ia	-	-	100%	2
(g)	5.5	500	Adjust	250	0	60	Oscillatory current (A)	0.9	-	100%	3

NOTES

1. The duration of test (b) shall be 2 minutes
2. The value obtained in test (f) shall be at least 5.0 mA below that obtained in test (c).
3. Measured at 250 mc/s with 16 ohms load after 2 minutes.