MINISTRY OF SUPPLY (DCD)

VALVE ELECTRONIC **CV1585**
(VGT121A)

Specification MAP/CV1585/Issue 6 Dated 3.10.46. To be read in conjunction with K1001.	SECURITY Specification: RESTRICTED Valve: RESTRICTED

⟶ Indicates a change

TYPE OF VALVE - Gas-filled Triode
CATHODE - Indirectly heated
ENVELOPE - Glass-metallised
PROTOTYPE - T41

MARKING

See K1001/4

RATING			Note
Heater Voltage	(V)	4.0	
Heater Current	(A)	1.5	
Max. Anode Voltage	(V)	400	
Max. Peak Anode Current	(mA)	500	
Grid Control Ratio		20	
Max. Anode Cathode Voltage Drop	(V)	70	

BASE

M.O.

Pin	Electrode
1	Heater
2	Cathode
3	Anode
4	No connection
5	Grid
6	Metallising
7	Pin omitted
8	Heater

DIMENSIONS

See K1001/A1/D1.

Dimension		Min.	Max.
A	(mm)	-	90
B	(mm)	-	32

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
	Before the following tests are made, the valves shall be pre-heated for a period of six minutes under the following conditions: Vh = 4.0V. Va = Vg = 0, 50V.D.C. between heater and cathode, the cathode being positive.							
	Vh	Va	Vg	Ia(mA)				100%
a	4.0	0	0	0	Ih (A)	1.25	1.75	or S
b	4.0	100	-20	-	Reverse Ig1 (μA)	-	1.0	100%
c	4.0	200 through 1000 Ω	Reduce Vg until Ia flows		Striking Bias (V)	-8.2	-10.8	100%
d	3.5	Adjusted Applied through not less than 100 Ω	0	100	Anode-cathode voltage drop (V)	-	70.0	100%
e	4.0	0	0	-	Heater cathode leakage current (μA)	-	15.0	100%
		Cathode 50V. positive to negative heater terminal						
f	The valve shall be tested in the circuit shown on page 3.				The neon lamp shall remain alight when the valve is inserted.			100%

CV 1585