MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV1047**

Specification MAP/CV1047/Issue 8 Dated 20.1.49 To be read in conjunction with K.1001.	SECURITY Specification: RESTRICTED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Triode
CATHODE - Directly heated
ENVELOPE - Glass - unmetallised
PROTOTYPE - TZ05 -20, VLS. 417.

MARKING
See K1001/4

PACKING
See K1005 ←

RATING			Note
Filament Voltage	(V)	6.0	
Filament Current	(A)	1.1	
Max. Anode Voltage	(V)	600	
Max. Anode Dissipation	(W)	20	
Mutual Conductance	(mA/V)	5.0	A
Amplification Factor		25	A
Anode Impedance	(Ω)	5000	A
Total Emission (approx.)	(A)	0.6	
Average Anode Current	(mA)	30	B
Max. Operating Frequency	(Mc/s)	20	

BASE
B4 - Special low loss

Pin	Electrode
1	Anode
2	Filament
3	Filament
4	Grid

DIMENSIONS
See K.1001/A1/D1

CAPACITANCES (pF)		
Caf	3.5	
Cgf	6.5	
Cag	10	

Dimensions		Min.	Max.
A	(mm)	130	150
B	(mm)	-	70

NOTES

A: At Va = 400, Ia = 50 mA.

B: At Va = 600, Vg = -10.

CV1047

TESTS

To be performed in addition to those applicable in K.1001.

	Test Conditions				Test	Limits Min.	Limits Max.	No. Tested
	Measured using Adaptor type 36. Ref. 10A/13332							
	See K.1001/AIII							
	Links to H.P.		Links to L.P.	Links to E	CAPACITANCES (pF)			
a	1		2,3	4,5,6,7, 8,9,10, TC1, TC2	1. Cae	-	5.5	6 per week
	4		2,3	1,5,6,7, 8,9,10, TC1, TC2	2. Cge	-	10.5	
	1		4	2,3,5,6 7,8,9,10 TC1, TC2	3. Cag	9	12	
	Vf	Va	Vg	Ia (mA)				
b	6.0	0	0	0	If (A)	-	1.2	100% or S
c	6.0	100	-100 D.C. + A.C. adjusted to give required Ia	80	Vg (V.RMS)	-	160	100%
d	6.0	300-400	0	-	Ia change (mA)	14.5	20	100% or S
e	6.0	350	-1 to +1	-	Ia change (mA)	7.0	-	100%
f	6.0	500	-	60	DISSIPATION There shall be no loss of vacuum or emission or other signs of breakdown. Variation of Vg. (V)	-	0.4	100% or S
	Conditions maintained for 5 minutes							
g	6.0	500	-	40	1. Reverse Ig (μA) 2. Vg (V)	- -2.5	20 -6.0	100%
h	6.0 to 5.4	500	-	60	Ia change (mA)	-	5.0	100%
j	6.0	300	-100 D.C. + A.C. adjusted to give required Ia	90	Mean Ig (mA)	3.0	-	100% or S
	Conditions maintained for 5 minutes							

NOTE

1: Tests 'f', 'g', 'h' and 'j' shall be performed in the order indicated.