VALVE ELECTRONIC

CV1959

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

Specification: GPO/CV 1959 Issue 2 Dated: August, 1955. → To be read in conjunction with K 1001, BS 1409 & BS 448.	SECURITY Specification: Unclassified Valve: Unclassified

→ indicates a change

TYPE OF VALVE: Beam Power Amplifier

CATHODE: Indirectly heated

ENVELOPE: Glass Unmetalised

PROTOTYPE 50C5

MARKING

See K 1001/4

RATING			Notes
Heater Voltage	(V)	50	
Heater Current	(A)	.15	
Max. Anode Voltage	(V)	150	C
Max. Screen Voltage	(V)	130	C
Max. Anode Dissipation	(W)	6.0	C
Max. Screen Grid Dissipation	(W)	1.4	C
Mutual Conductance	(mA/V)	7.5	A
Anode impedance	(ohms)	10000	A
Max. Heater Cathode Potential	(V)	110	C

BASE

BS 448/B 7G

Connections

Pin	Electrode
1	k.g3
2	g1
3	h
4	h
5	g1
6	g2
7	a

DIMENSIONS

See K 1001/A1/D4

(CAPACITANCES (pF)			Dimension	Min.	Max.
Cag1 Max.	0.64	B	A		66.2
Cin	13	B	L		59.9
C out	6.1	B	B		19.0

NOTES

A measured at Va = Vg2 = 110V; Vg1 = -7.5V
B measured without metal screen
C Absolute Maximum Value

CV1959

TESTS

To be performed in addition to those applicable in K 1001

	Test Conditions				Test	Limits		No.	Note
	Vh	Va	Vg2	Vg1		Min.	Max.	Tested	
a	50	-	-	-	Ih (A)	.138	.162	100% or S	
b	50	110	110	-7.5	Ia (mA)	34.0	67.0	100%	1
c	50	110	110	-7.5	Ig2 (mA)	0.8	8.5	100% or S	
d	50	110	110	-7.5	gm (mA/V)	6.0	9.5	100%	
e	50	110	110	-7.5	Reverse Ig1 (uA)	-	3.0	100%	
f	50	30	30	30	Emission (mA)	150	-	100%	2

NOTES

1. Tested first with pin 2 at voltage Vg1, and pin 5 disconnected and then with pin 5 at voltage Vg1 and pin 2 disconnected.

2. Test to be applied only for sufficient time to obtain a steady reading.