

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.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	Unclassified	Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> Beam Power Amplifier <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Glass Unmetalised <u>PROTOTYPE:</u> 50C5		<u>MARKING</u> See K 1001/4		
<u>RATING</u>		<u>Notes</u>	<u>BASE</u>	
			BS 448/B 7C	
			<u>Connections</u>	
			<u>Pin</u>	<u>Electrode</u>
Heater Voltage (V)		50	1	k.g3
Heater Current (A)		.15	2	g1
Max. Anode Voltage (V)		150	3	h
Max. Screen Voltage (V)		130	4	h
Max. Anode Dissipation (W)		6.0	5	g1
Max. Screen Grid Dissipation (W)		1.4	6	g2
Mutual Conductance (mA/V)		7.5	7	a
Anode impedance (ohms)		10000		
Max. Heater Cathode Potential (V)		110		
			<u>DIMENSIONS</u>	
			See K 1001/A1/D4	
			<u>Dimension</u>	<u>Min.</u>
			<u>Max.</u>	
<u>(CAPACITANCES (pF))</u>			A	66.2
Cag1 Max.		0.64	L	59.9
Cin		13	B	19.0
C out		6.1		
<u>NOTES</u>				
A measured at $V_a = V_{g2} = 110V$; $V_{g1} = -7.5V$				
B measured without metal screen				
C Absolute Maximum Value				

Rota 1724S/52

CV1959/2/1

Z.10169.R.

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TESTS

To be performed in addition to those applicable in K 1001

	Test Conditions				Test	Limits		No. Tested	Note
	Vh	Va	Vg2	Vg1		Min.	Max.		
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 Igl (μ A)	-	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.