



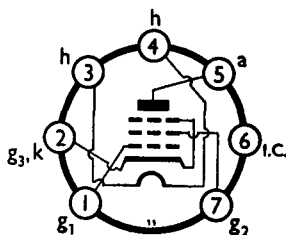
**MINIATURE
OUTPUT PENTODE
6.3V INDIRECTLY HEATED**

A2134
MARCH, 1955

The A2134 is the commercial equivalent of CV2179.

It is particularly suitable for use as the series valve in voltage stabilising equipment.

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside
of base.

Base : B7G
Bulb : Tubular

Overall length : 64—70 mm.
Seated length : 58—64 mm.
Max. diameter : 19 mm.

HEATER

V_h	6.3	V
I_h	0.635	A

MAXIMUM RATINGS (design centre)

Pentode connection			Triode connection		
V_a	300	V	V_a, g_2	300	V
V_{g2}	300	V	P_a, g_2	12	W
V_{h-k} (pk)	150	V			
P_a	9	W			
P_{g2}	3	W			

CHARACTERISTICS

Pentode connection			Triode connection		
V_a	165	V	V_a, g_2	165	V
V_{g2}	165	V	V_{g1}	-9	V
V_{g1}	-9	V	μ	10	
μ	220		r_a	835	Ω
r_a	23.2	k Ω	g_m	12	mA/V
g_m	9.5	mA/V			

CAPACITANCES (of unscreened valve) :

C_{a-all} 10 pF C_{g1-all} 10 pF C_{a-g1} 0.3 pF

TYPICAL OPERATION

Pentode Connection

Single Valve. Class A

% full input	45	100	100	75	50	%
V_a	100	150	165	165	165	V
V_{g2}	100	150	165	165	165	V
V_{g1} (o)	-4.6	-7.8	-9.3	-10	-11.4	V
I_a (o)	39	56	53	40	29	mA
I_{g2} (o)	6.5	9.5	9	7.2	5.4	mA
R_k	100	120	150	220	330	Ω
V_{in} (pk)	5	7	8.5	6.7	4.7	V
R_L	2.5	3	3	4	6	k Ω
P_{cut}	1.45	3.5	4.1	2.84	2.3	W
D	8.6	11	10	10	10	%

The conditions given in the last two columns are those obtained when the valve is over-biased. They are useful when H.T. power is limited and reduced power output can be tolerated.

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Two Valves. Push-pull, Class AB₁

Data per pair unless otherwise stated.

V _a	100	165	200	250	V
V _{g2}	100	165	165	165	V
V _{g1} (o)	-5	-11.9	-10	-11.2	V
I _a (o)	70	107	87	66	mA
I _a (max. sig.)	73	110	100	80	mA
I _{g2} (o)	12	18	14	10	mA
I _{g2} (max. sig.)	15	36	25	24	mA
R _k (per valve)	120	150	200	300	Ω
v _{in} (pk) (g ₁ -g ₁)	11	20	25	30	V
R _L (a-a)	3	3	4.5	7.5	kΩ
P _{out}	2.25	9	11.5	13.3	W
D	3.3	4.6	4	4.5	%

Triode Connection

Two Valves. Push-pull, Class AB₁.

Data per pair unless otherwise stated.

V _{a,g2}	165	V
V _{g1} (o)	-10.5	V
I _{a,g2} (o)	65	mA
I _{a,g2} (max. sig.)	74	mA
R _k (per valve)	330	Ω
v _{in} (pk) (g ₁ -g ₁)	24	V
R _L (a-a)	3	kΩ
P _{out}	2.6	W
D	1.4	%

GRID RESISTOR

The maximum permissible D.C. resistance from control grid to cathode is limited to 0.27 MΩ ± 20% for auto-bias and 0.1 MΩ for fixed bias applications.

SCREENING

No internal or external screening is fitted to the valve.

MOUNTING

Any position.

RETAINING

The use of a retaining device is recommended.

VENTILATION

Free air circulation around the bulb is preferable. If a retaining device in the form of a canister is employed, the surfaces should be blackened. The temperature of the hottest part of the bulb must not exceed 250°C.

MICROPHONY

Free from microphony in all normal receiver applications.

