

**OUTPUT PENTODE
PENTHODE DE SORTIE
ENDPENTHODE**

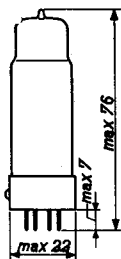
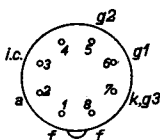
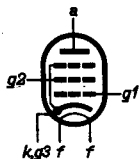
Heating: indirect by A.C. or D.C.;
parallel supply

Chauffage: indirect par C.A. ou C.C.;
alimentation en parallèle

Heizung: indirekt durch Wechsel-
oder Gleichstrom;
Parallelspeisung

$V_f = 6,3 \text{ V}$
 $I_f = 0,71 \text{ A}$

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Capacitances
Capacités
Kapazitäten

$C_a = 7,8 \text{ pF}$

$C_{g1} = 10,2 \text{ pF}$

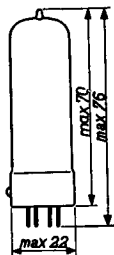
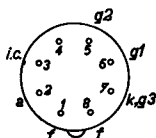
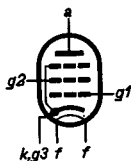
$C_{ag1} < 1 \text{ pF}$

$C_{g1f} < 0,15 \text{ pF}$

OUTPUT PENTODE
PENTHODE DE SORTIE
ENDPENTHODE

Heating: indirect by A.C. or D.C.;
parallel supply
Chauffage: indirect par C.A. ou C.C.;
alimentation en parallèle $V_f = 6,3 \text{ V}$
Heizung: indirekt durch Wechsel-
oder Gleichstrom; $I_f = 0,71 \text{ A}$
Parallelspeisung

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Base, culot, Sockel: Rimlock

Capacitances
Capacités
Kapazitäten

$C_a = 7,8 \text{ pF}$
 $C_{g1} = 10,2 \text{ pF}$
 $C_{ag1} < 1 \text{ pF}$
 $C_{g1f} < 0,15 \text{ pF}$

Operating characteristics class A
 Caractéristiques d'utilisation classe A
 Betriebsdaten Klasse A

Va	=	250 V
Vg2	=	250 V
Rk	=	170 Ω
Ia	=	36 mA
Ig2	=	5,2 mA
S	=	10 mA/V
Ri	=	40 k Ω
Ra	=	7 k Ω
Wo (d _{tot} = 10%)	=	3,9 W
Vi (d _{tot} = 10%)	=	3,8 V _{eff}
Wo (I _{g1} = +0,3 μ A)	=	4,8 W
Vi (Wo = 50 mW)	=	0,32 V _{eff}
μ g2g1	=	22

Operating characteristics class AB
 Caractéristiques d'utilisation classe AB
 Betriebsdaten Klasse AB

Va	=	250	V	
Vg2	=	250	V	
Rk	=	85	Ω	
Raa	=	7	k Ω	
Vi	=	0	5,6	V _{eff}
Ia	=	2x36	2x39,5	mA
Ig2	=	2x5,2	2x8	mA
Wo	=	0	9,4	W
d _{tot}	=	-	4,6	%

Operating characteristics class A
 Caractéristiques d'utilisation classe A
 Betriebsdaten Klasse A

V_a	=	250 V
V_{g2}	=	250 V
R_k	=	170 Ω
I_a	=	36 mA
I_{g2}	=	5,2 mA
S	=	10 mA/V
R_i	=	40 k Ω
R_a	=	7 k Ω
W_o ($d_{tot} = 10\%$)	=	3,9 W
V_i ($d_{tot} = 10\%$)	=	3,8 V_{eff}
W_o ($I_{g1} = +0,3 \mu A$)	=	4,8 W
V_i ($W_o = 50$ mW)	=	0,32 V_{eff}
μg_{2g1}	=	22

Operating characteristics class AB
 Caractéristiques d'utilisation classe AB
 Betriebsdaten Klasse AB

V_a	=	250		V
V_{g2}	=	250		V
R_k	=	85		Ω
R_{aa}	=	7		k Ω
V_i	=	0	5,6	V_{eff}
I_a	=	2x36	2x39,5	mA
I_{g2}	=	2x5,2	2x8	mA
W_o	=	0	9,4	W
d_{tot}	=	-	4,6	%

Operating conditions class A in triode connection
(g₂ connected to anode)

Caractéristiques d'utilisation classe A en connexion
triode (g₂ reliée à l'anode)

Betriebsdaten Klasse A in Triodenschaltung (g₂ ver-
bunden mit Anode)

V _a = V _{g2}	=	250 V
R _k	=	250 Ω
R _a	=	3,5 kΩ
I _a + I _{g2}	=	33 mA
W _o	=	1,55 W
V _i	=	6 V _{eff}
d	=	8 %

Limiting values

Caractéristiques limites

Grenzdaten

V _{a0}	= max.	550 V
V _a	= max.	300 V
W _a	= max.	9 W
V _{g20}	= max.	550 V
V _{g2}	= max.	300 V
W _{g2} (V _i = 0)	= max.	1,4 W
W _{g2} (W _o = max.)	= max.	3,3 W
I _k	= max.	55 mA
V _{g1} (I _{g1} = +0,3 μA)	= max.	-1,3 V
R _{g1}	= max.	1 MΩ
V _{fk}	= max.	50 V
R _{fk}	= max.	20 kΩ

Operating conditions class A in triode connection
(g2 connected to anode)

Caractéristiques d'utilisation classe A en connexion
triode (g2 reliée à l'anode)

Betriebsdaten Klasse A in Triodenschaltung (g2 ver-
bunden mit Anode)

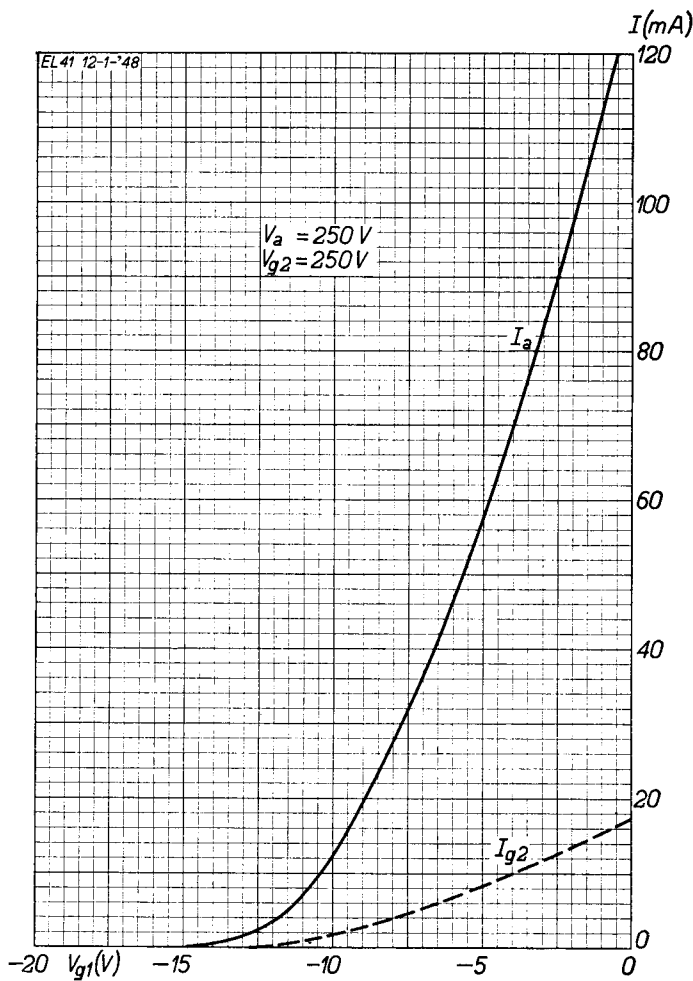
$V_a = V_{g2}$	=	250 V
R_k	=	250 Ω
R_a	=	3,5 k Ω
$I_a + I_{g2}$	=	33 mA
W_o	=	1,55 W
V_i	=	6 V _{eff}
d	=	8 %

Limiting values

Caractéristiques limites

Grenzdaten

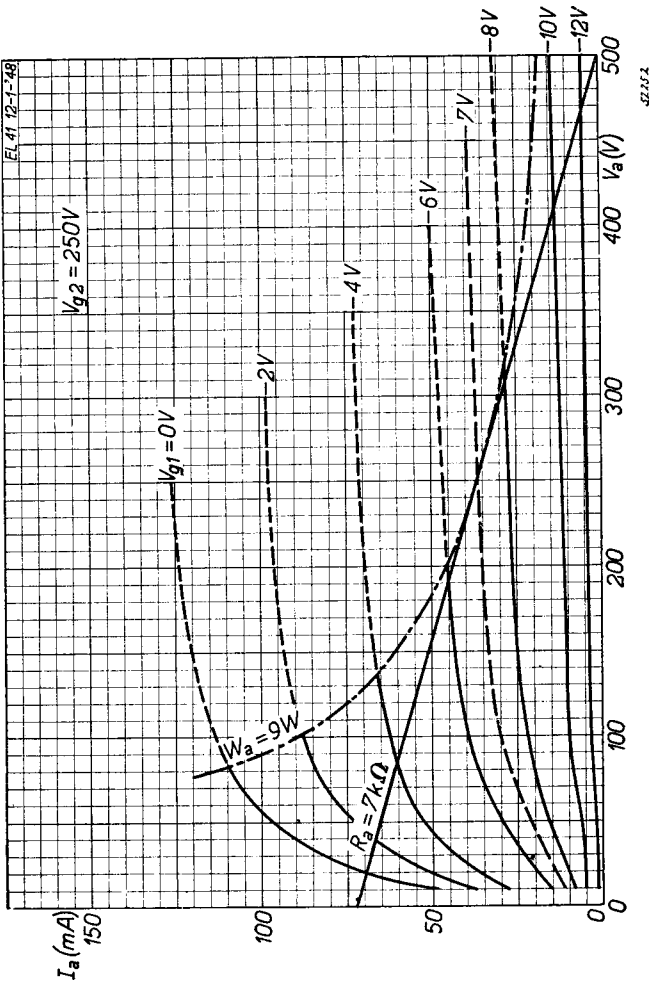
V_{a_o}	= max.	550 V
V_a	= max.	300 V
W_a	= max.	9 W
V_{g2_o}	= max.	550 V
V_{g2}	= max.	300 V
$W_{g2} (V_i = 0)$	= max.	1,4 W
$W_{g2} (W_o = \text{max.})$	= max.	3,3 W
I_k	= max.	55 mA
$V_{g1} (I_{g1} = +0,3\mu\text{A})$	= max.	-1,3 V
R_{g1}	= max.	1 M Ω
V_{fk}	= max.	100 V
R_{fk}	= max.	20 k Ω



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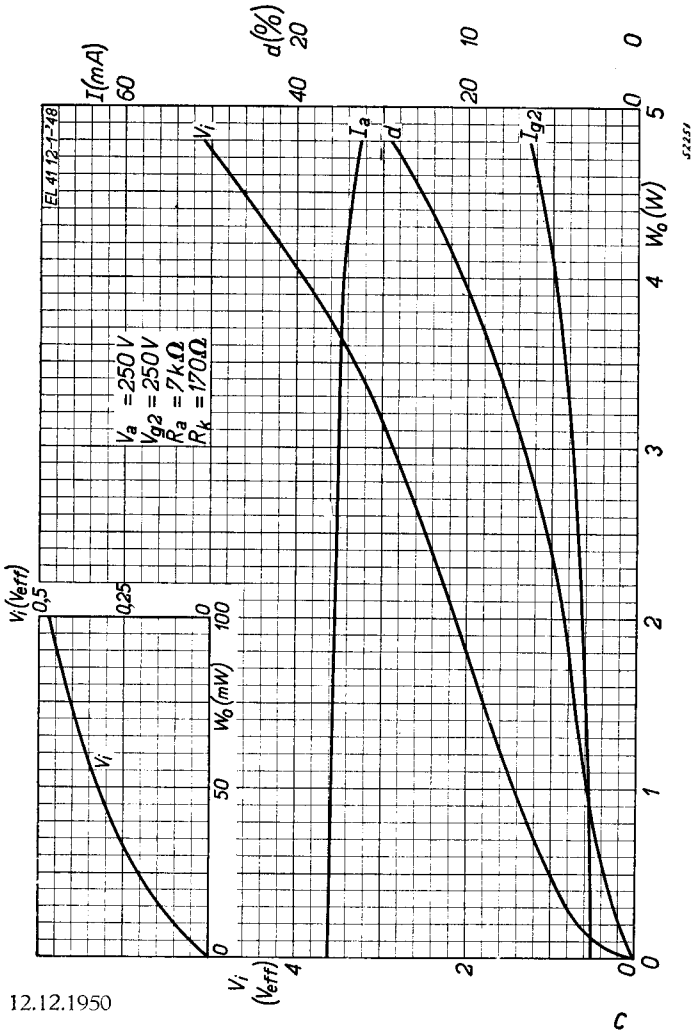
EL 41

PHILIPS

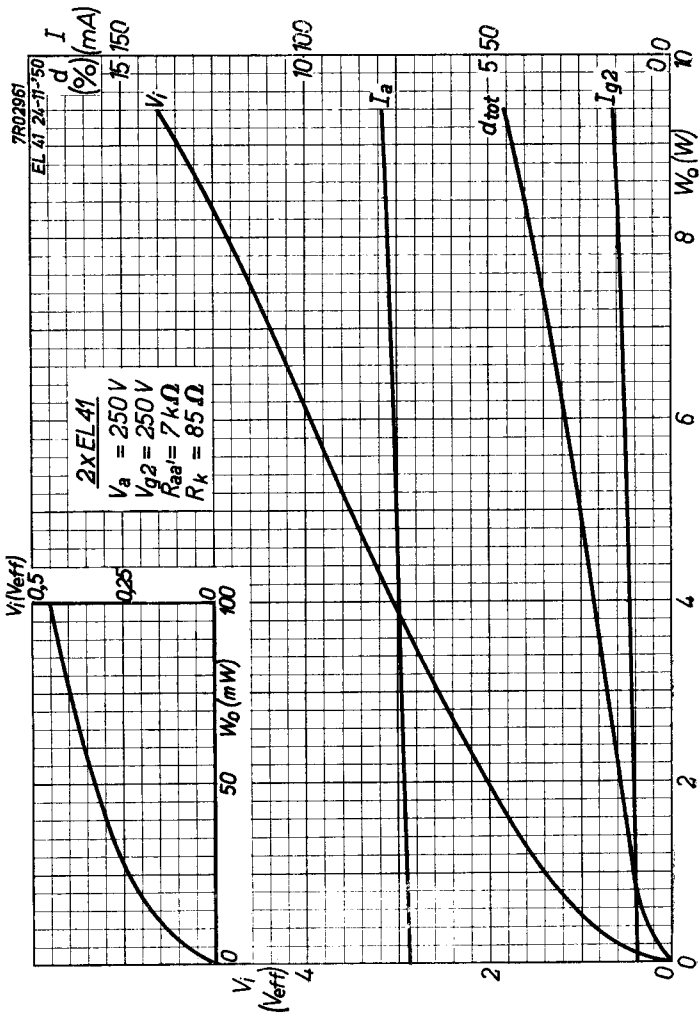


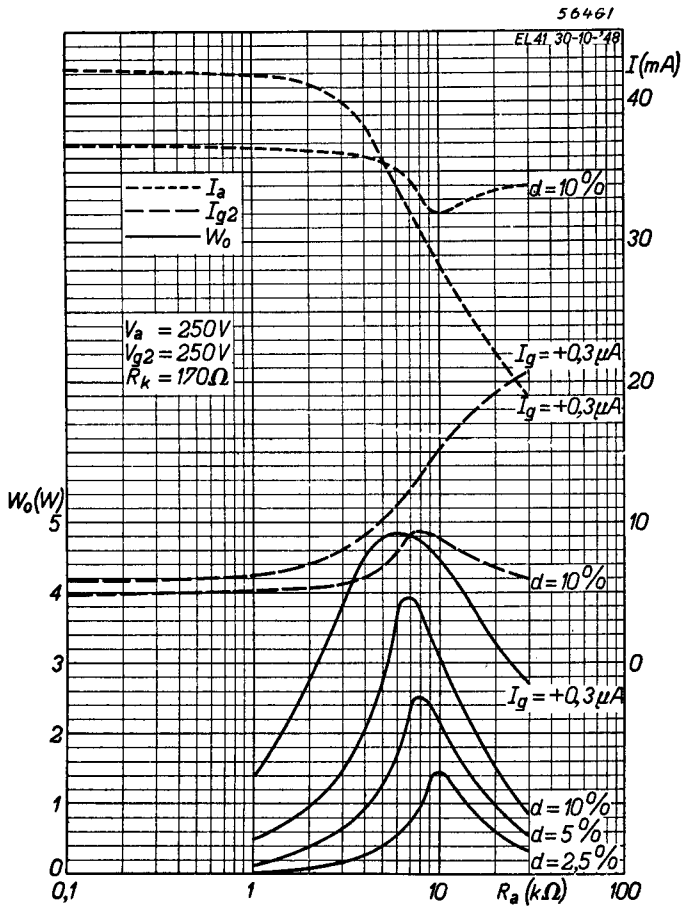
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B



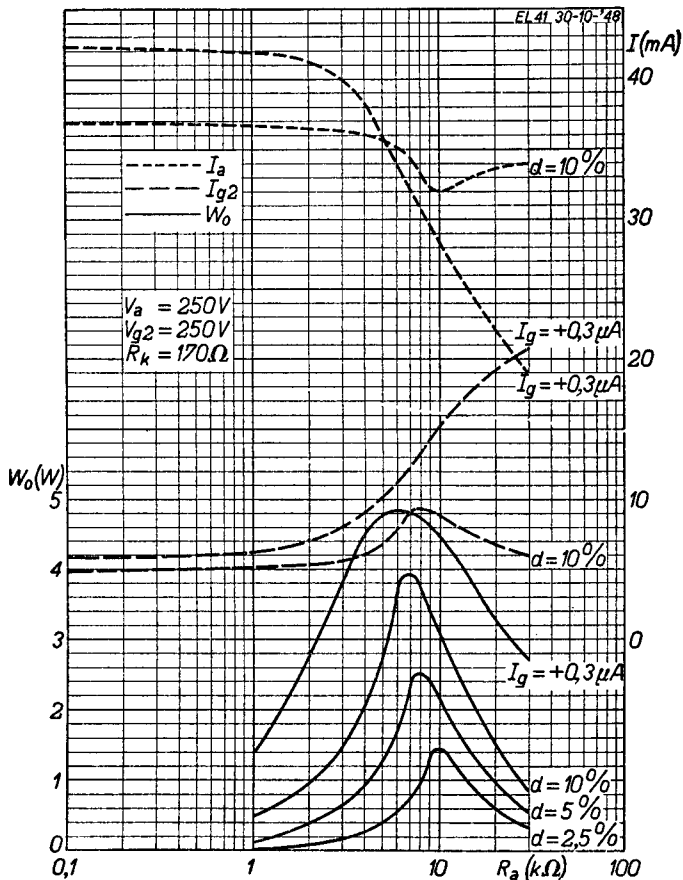
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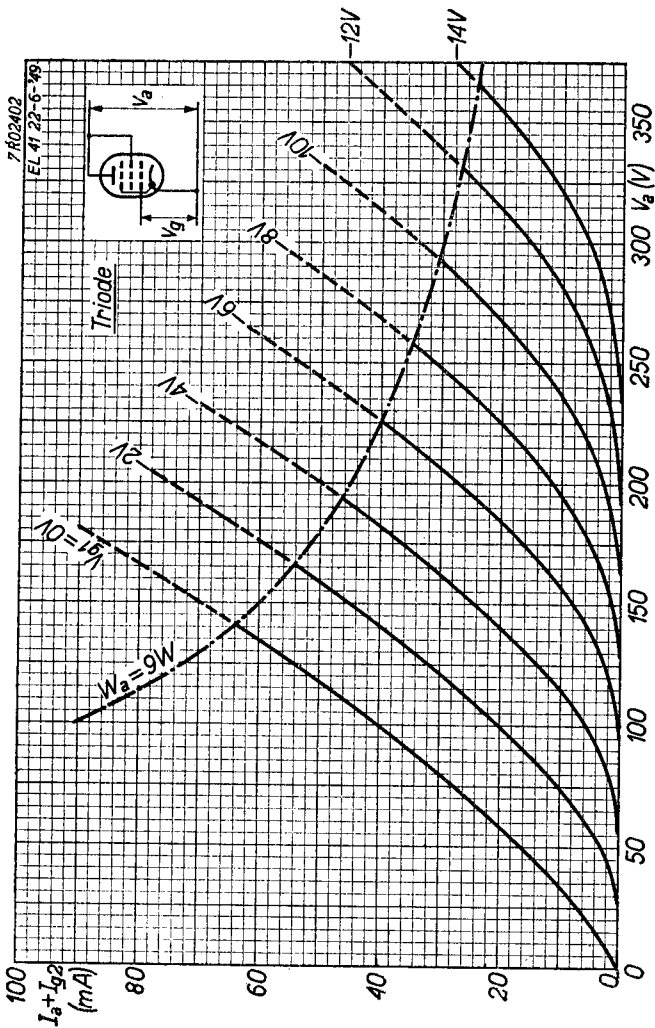
EL 41**PHILIPS**



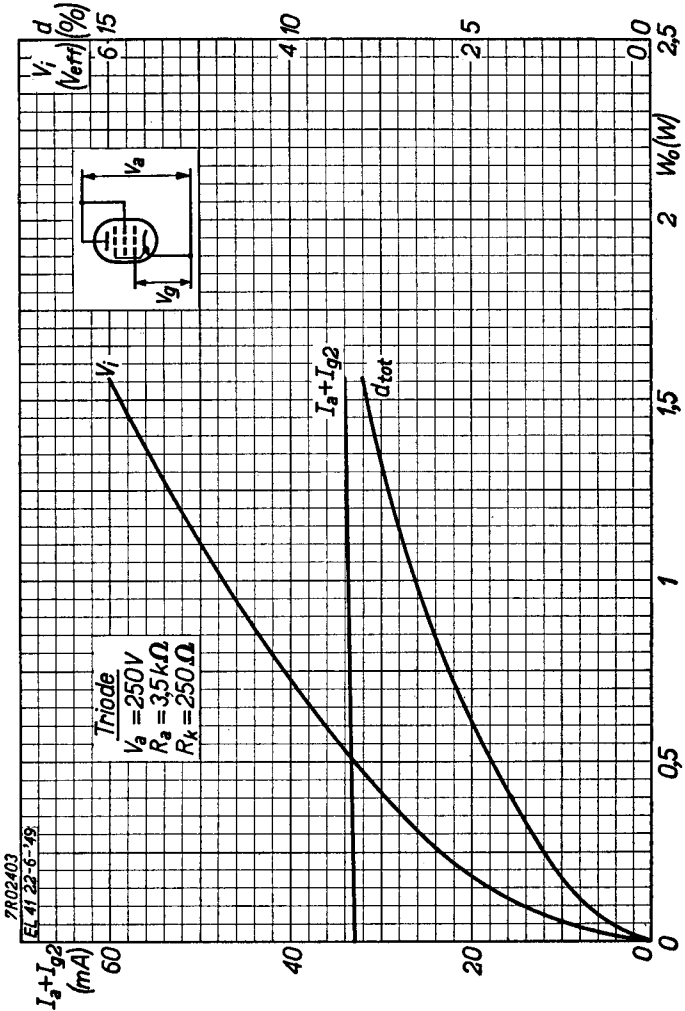
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EL 41.30-10-'48



EL 41**PHILIPS**

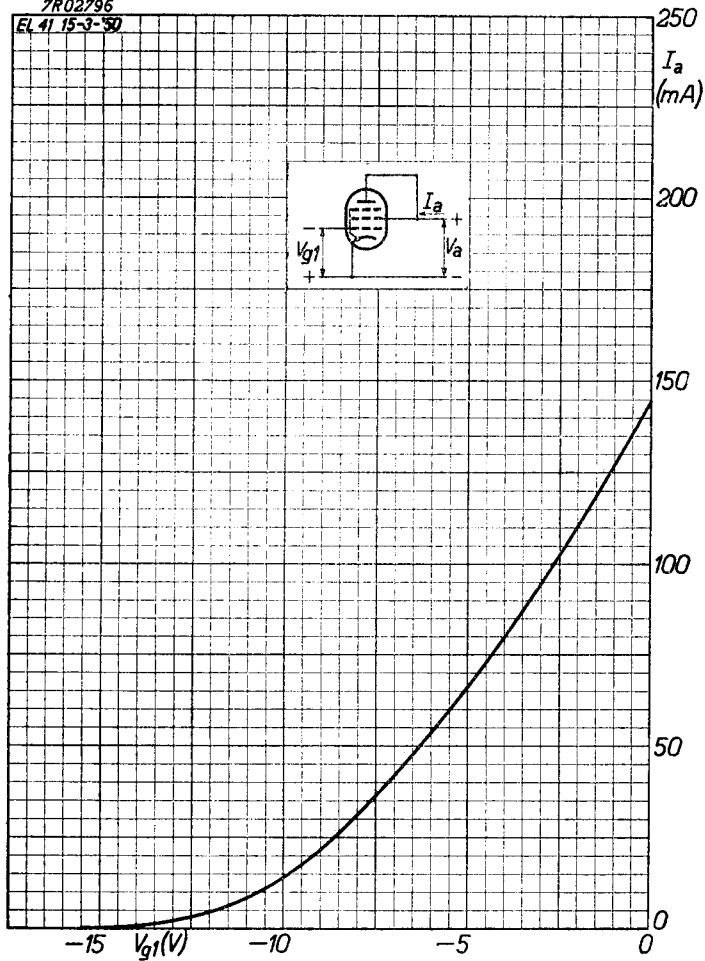
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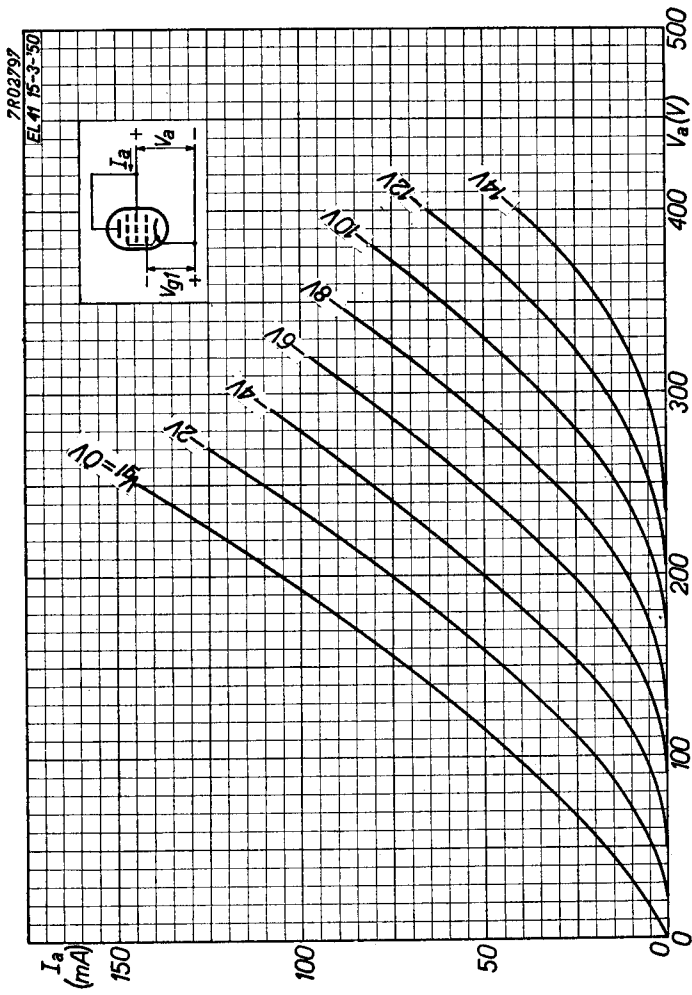


EL 41**PHILIPS**

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EL 41 15-3-50





PHILIPS

*Electronic
Tube*

HANDBOOK

page	EL41 sheet	date
1	1	1949.01.25
2	1	1952.04.04
3	2	1949.01.25
4	2	1952.04.04
5	2a	1949.04.20
6	2a	1952.04.04
7	A	1948.03.01
8	B	1948.03.01
9	C	1950.12.12
10	D	1950.12.12
11	E	1949.07.07
12	E	1957.10.10
13	F	1949.07.07
14	G	1950.04.04
15	H	1950.04.04
16	I	1950.04.04
17	FP	2010.12.29