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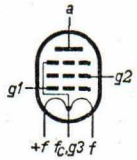
DL 92

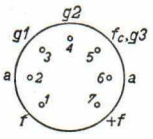
OUTPUT PENTODE for battery receivers
PENTHODE DE SORTIE pour des appareils batterie
ENDPENTODE für Batteriegeräte

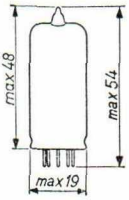
Heating: direct by D.C.; series or parallel supply
Chauffage: direct par C.C.; alimentation en série ou en parallèle
Heizung: direkt durch Gleichstrom; Serien- oder Parallelspeisung

Parallel supply:	Vf =	1,4 V	2,8 V
Alimentation en parallèle:	If =	100 mA	50 mA
Parallelspeisung:	Pins Broches Stifte	5-(1+7)	1-7
Series supply:	Vf =	1,3 V	2,6 V
Alimentation en série:	Pins Broches	5-(1+7)	1-7
Serienspeisung:	Stifte		

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Base, culot, Sockel: Miniature

Capacitances
Capacités
Kapazitäten

C_{g1} = 4,35 pF
C_a = 6,0 pF
C_{ag1} < 0,4 pF

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

A. V_f = 1,4 V; If = 100 mA; pins,broches,Stifte 5-(1+7)

V_a	=	45	41	67,5	V
V_{g2}	=	45	41	67,5	V
V_{g1}	=	-4,5	-3,5	-7	V
I_a	=	3,8	4,0	7,2	mA
I_{g2}	=	0,8	0,8	1,5	mA
S	=	1,25	1,3	1,55	mA/V
μ_{g2g1}	=	5	4,5	5	
R_i	=	100	90	100	kΩ
R_a	=	8	7	5	kΩ
W_o	=	65	45	180	mW
V_i	=	3,5	2,9	5,5	Veff
d_{tot}	=	12	13	10	%
$V_i(W_o$=50 mW)	=	2,8	-	2,5	Veff
V_a	=	61	90	84	V
V_{g2}	=	61	67,5	[1])	V
V_{g1}	=	-6	-7	-6,5	V
I_a	=	6,6	7,4	8,0	mA
I_{g2}	=	1,4	1,4	1,7	mA
S	=	1,5	1,57	1,55	mA/V
μ_{g2g1}	=	4,5	5	4,5	
R_i	=	100	100	100	kΩ
R_a	=	7	8	7	kΩ
W_o	=	125	270	190	mW
V_i	=	4,5	5,1	5,1	Veff
d_{tot}	=	14	12	13	%
V_i	=	2,0	1,95	1,9	Veff

[1]) R_{g2} = 10kΩ, decoupled with 0,47 µF (V_{bg2} = 84 V)
R_{g2} = 10kΩ, découplé par 0,47 µF (V_{bg2} = 84 V)
R_{g2} = 10kΩ, entkoppelt durch 0,47 µF (V_{bg2} = 84 V)

B. V_f = 2,8 V; I_f=50 mA; pins, broches, Stifte 1- 7

V_a	=	45	41	67,5	V
V_{g2}	=	45	41	67,5	V
V_{g1}	=	-4,5	-3,5	-7	V
I_a	=	3,0	3,2	6,0	mA
I_{g2}	=	0,7	0,7	1,2	mA
S	=	1,1	1,15	1,4	mA/V
μ_{g2g1}	=	5	45	5	
R_i	=	100	110	100	kΩ
R_a	=	8	7	5	kΩ
W_o	=	50	38	160	mW
V_i	=	3,5	2,8	5,5	V_{eff}
d_{tot}	=	12,5	13	12	%
$V_i(W_o$ = 50 mW)	=	3,5	-	2,5	V_{eff}

V_a	=	61	90	84	V
V_{g2}	=	61	67,5	[1])	V
V_{g1}	=	-5,5	-7	-6	V
I_a	=	6,5	6,1	7,6	mA
I_{g2}	=	1,4	1,1	1,6	mA
S	=	1,45	1,42	1,5	mA/V
μ_{g2g1}	=	4,5	5	4,5	
R_i	=	100	100	105	kΩ
R_a	=	7	8	7	kΩ
W_o	=	120	235	180	mW
V_i	=	4,4	4,7	4,7	V_{eff}
d_{tot}	=	14	13	13	%
$V_i(W_o$ = 50 mW)	=	2,0	1,95	1,9	V_{eff}

[1]) R_{g2} = 10 kΩ, decoupled with 0,47 µF (V_{bg2}= 84 V)
R_{g2} = 10 kΩ, découplé par 0,47 µF (V_{bg2}= 84 V)
R_{g2} = 10 kΩ, entkoppelt durch 0,47 µF (V_{bg2}= 84 V)

Limiting values
Caractéristiques limites
Grenzdaten

V_{a_o}	= max.	90	V
V_a	= max.	90	V
W_a	= max.	0,7	W
V_{g2_o}	= max.	90	V
V_{g2}	= max.	67,5	V
W_{g2}	= max.	0,15	W
$V_{g1}(I_{g1}$= +0,3 µA)	= max.	0	V
I_k	= max.	11	mA
R_{g1}	= max.	2	MΩ

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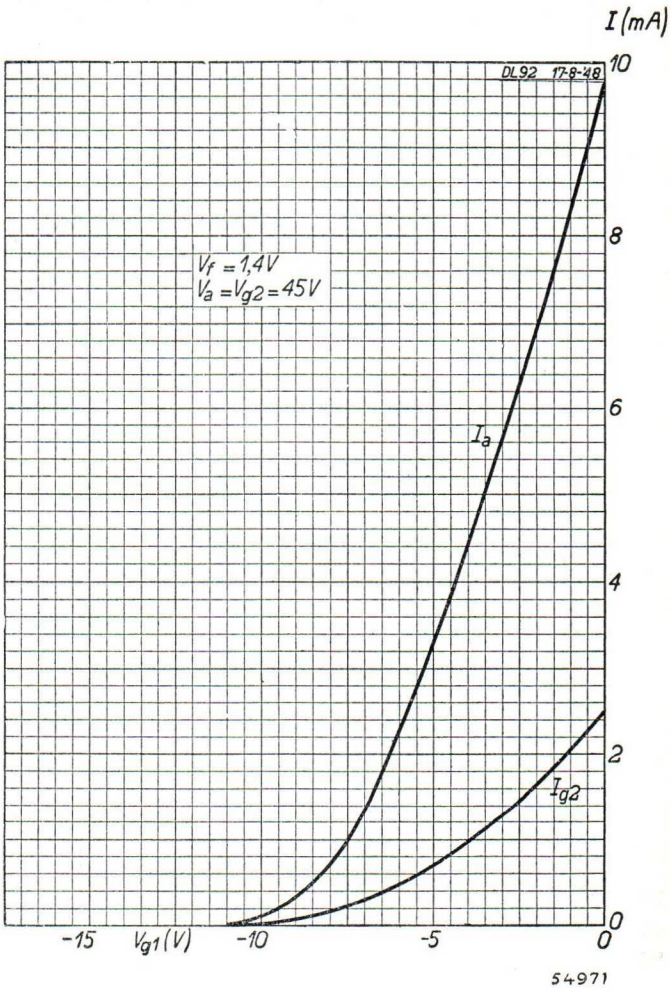

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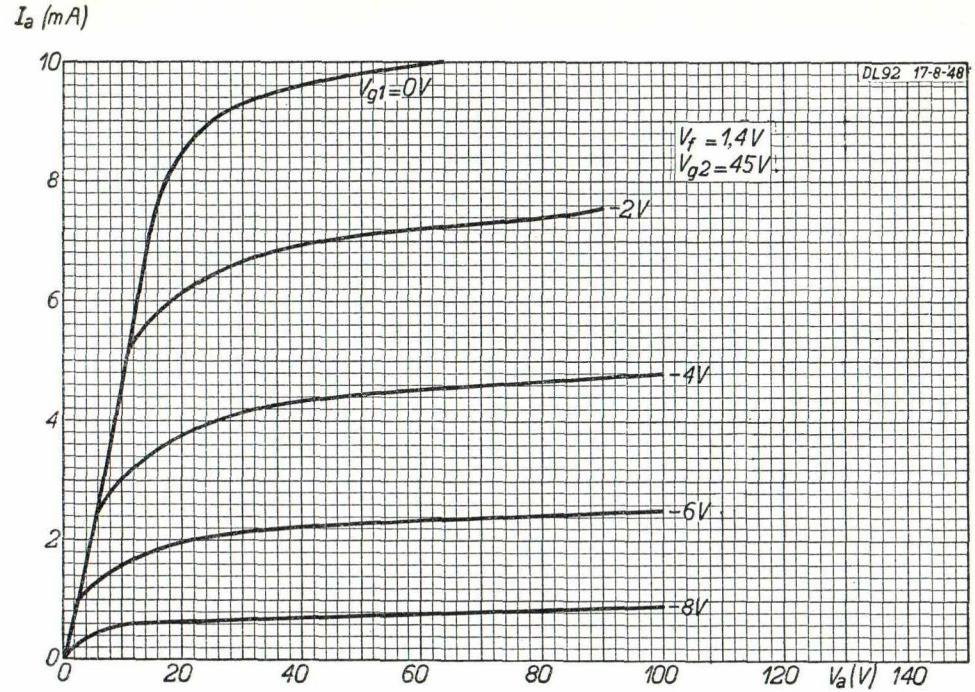
A



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PHILIPS

B

54977

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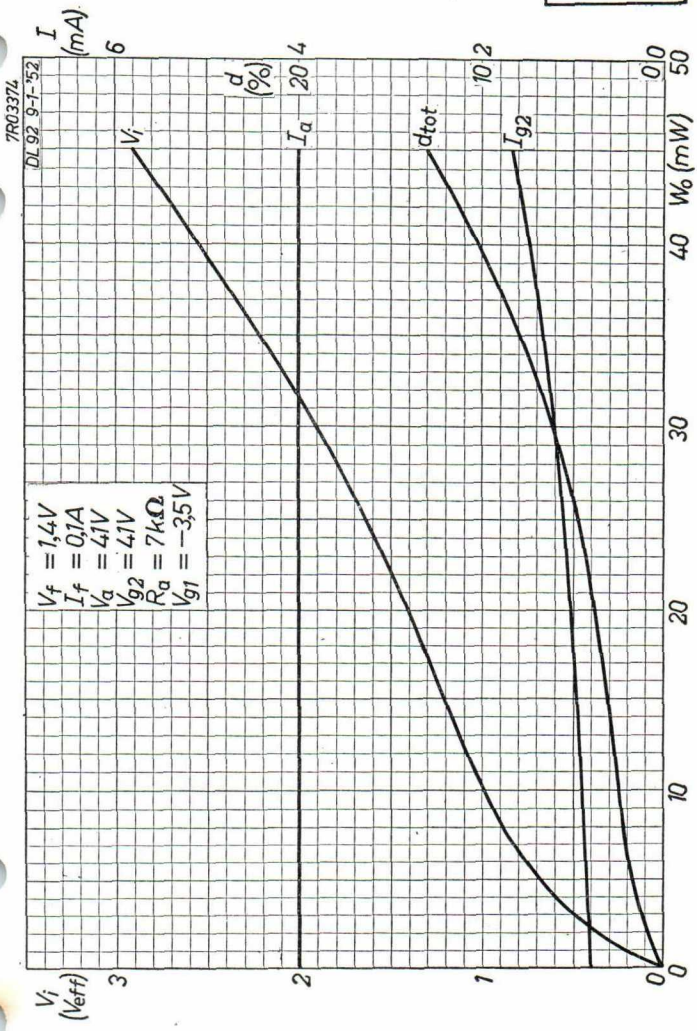
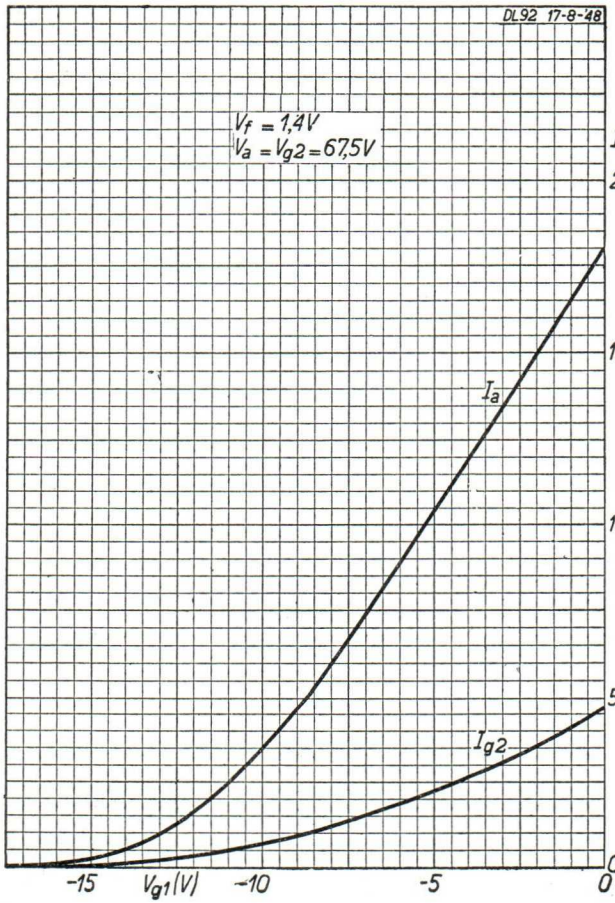
DL 92



4.4.1952

C

DL 92 **PHILIPS**



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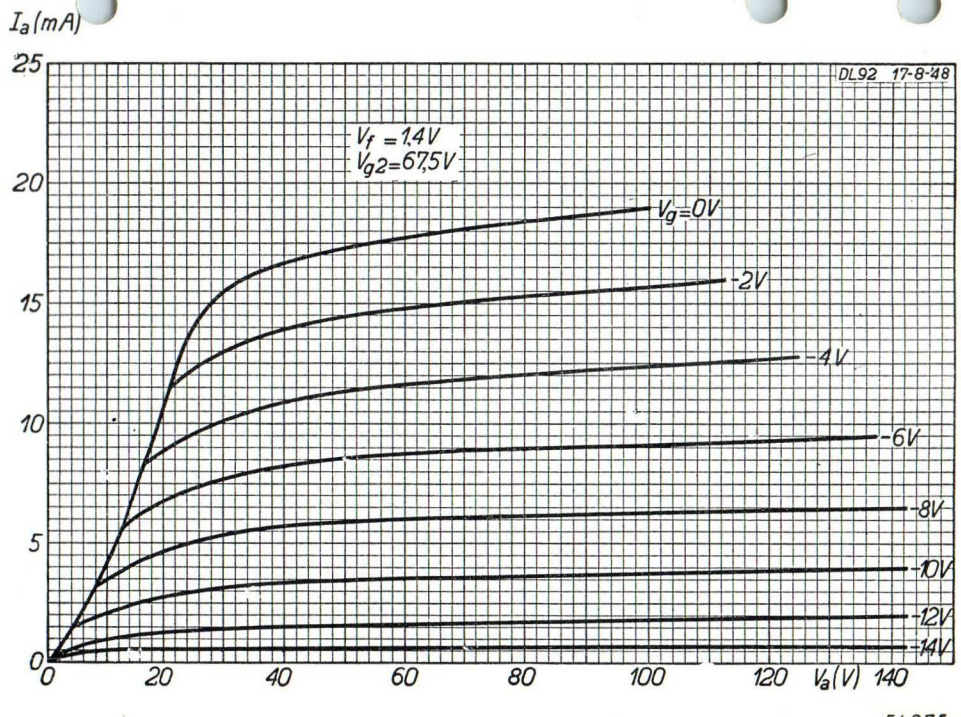
D

11.11.1953



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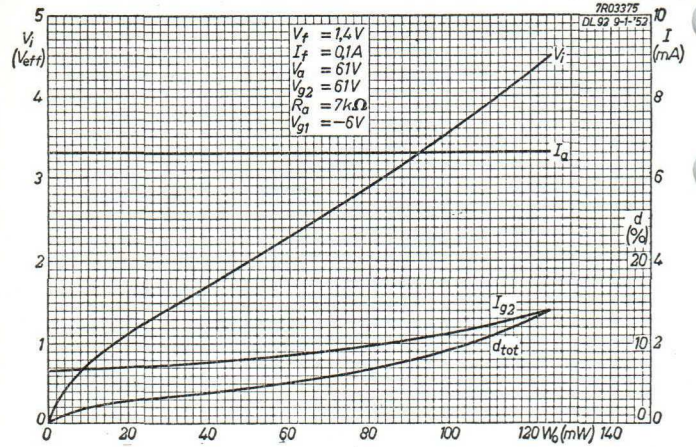
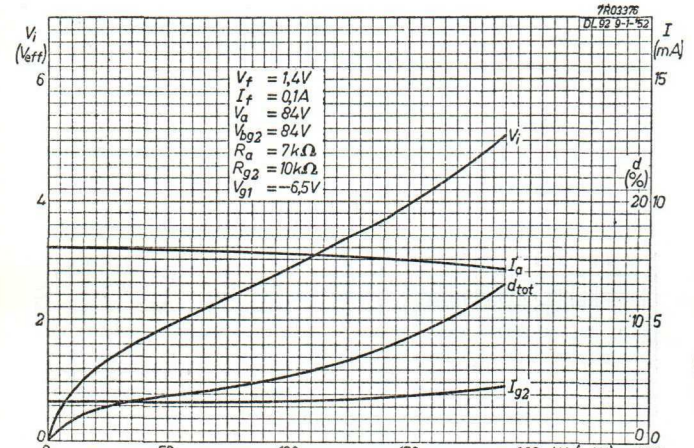
DL 92

E


7R03375
DL 92 9-1-'52
V_f = 1,4V
I_f = 0,1A
V_a = 61V
V_{g2} = 61V
R_a = 7kΩ
V_{g1} = −6V
V_i (Veff)
I (mA)
V_i
I_a
I_{g2}
d_{tot}
d (%)
W_a (mW)


7R03376
DL 92 9-1-'52
V_f = 1,4V
I_f = 0,1A
V_a = 84V
V_{bg2} = 84V
R_a = 7kΩ
R_{g2} = 10kΩ
V_{g1} = −6,5V
V_i (Veff)
I (mA)
V_i
I_a
d_{tot}
I_{g2}
d (%)
W_a (mW)

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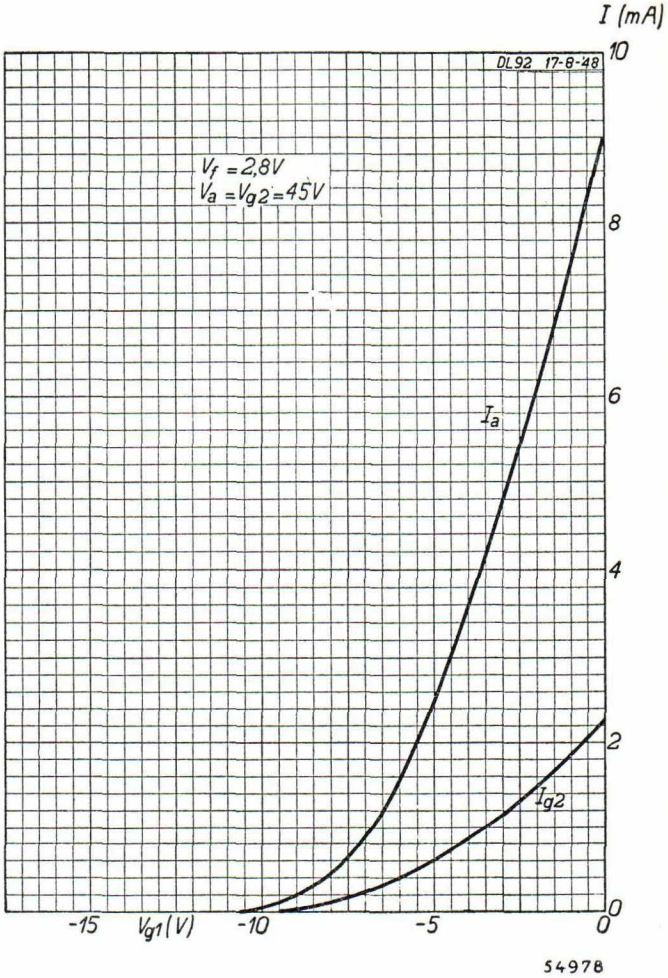
DL 92



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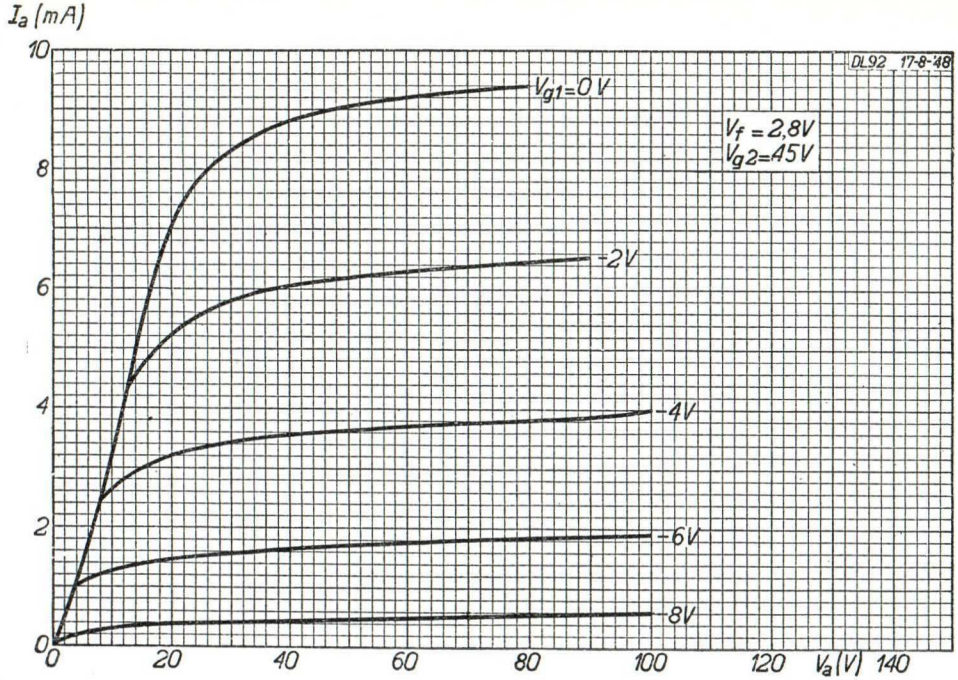
G



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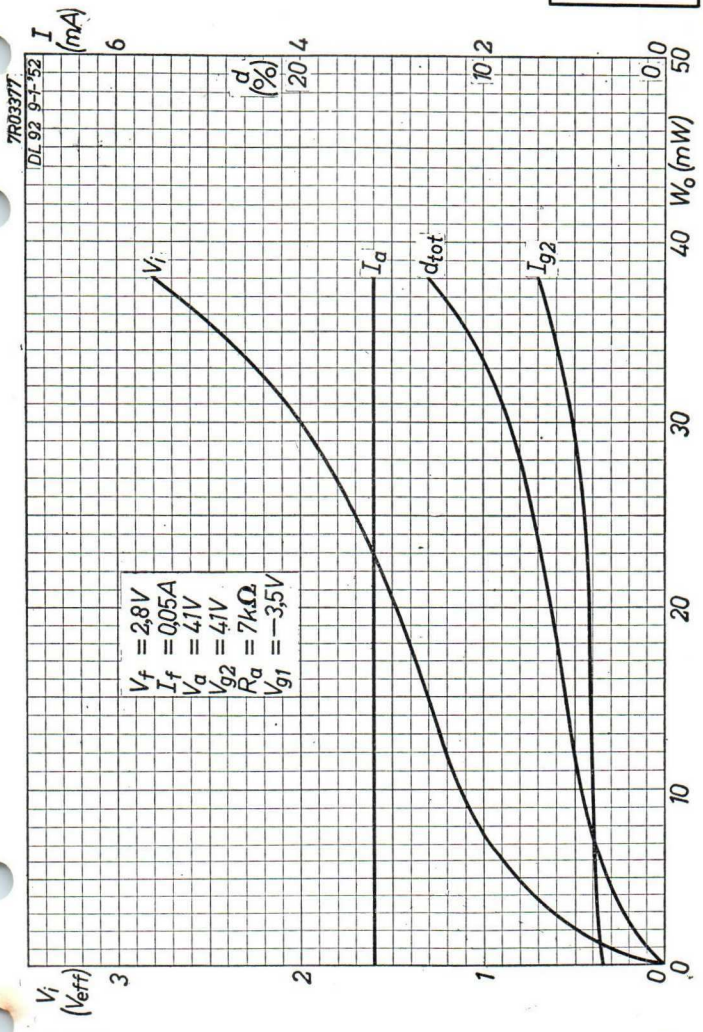
H


7R03377
DL 92 9-1-'52
I (mA)
6
4
2
0
d (%)
20
10
0
W_o (mW)
50
40
30
20
10
0
V_i (V_{eff})
3
2
1
0
V_i
I_a
d_{tot}
I_{g2}
V_f = 2,8V
I_f = 0,05A
V_a = 41V
V_{g2} = 41V
R_a = 7kΩ
V_{g1} = −3,5V

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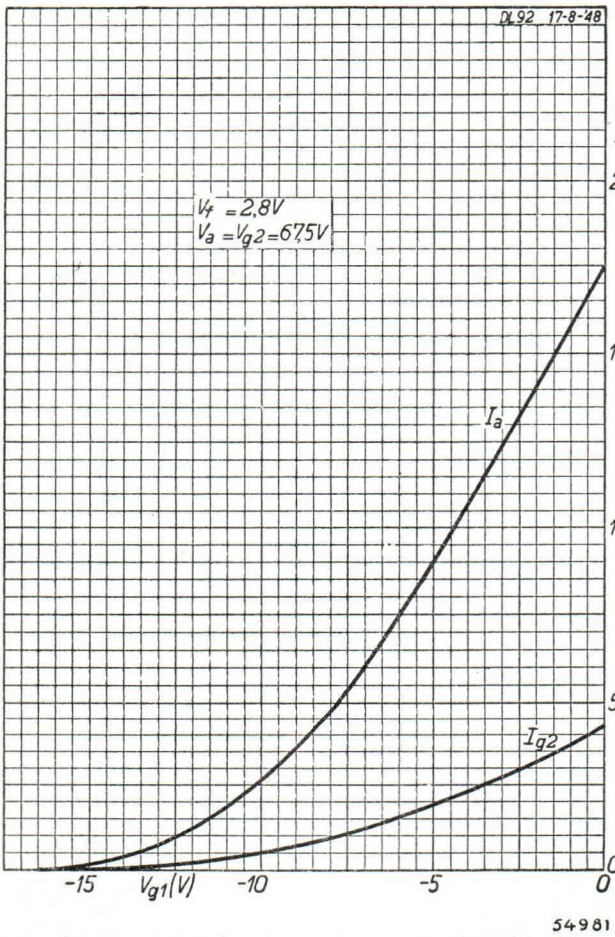
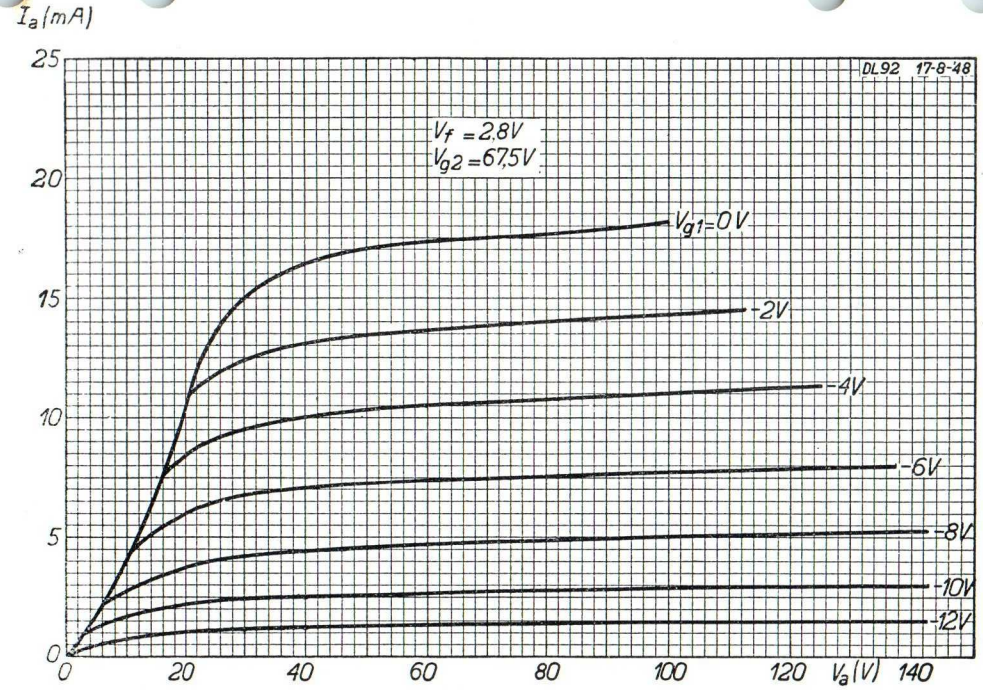


54981

J



54982

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K

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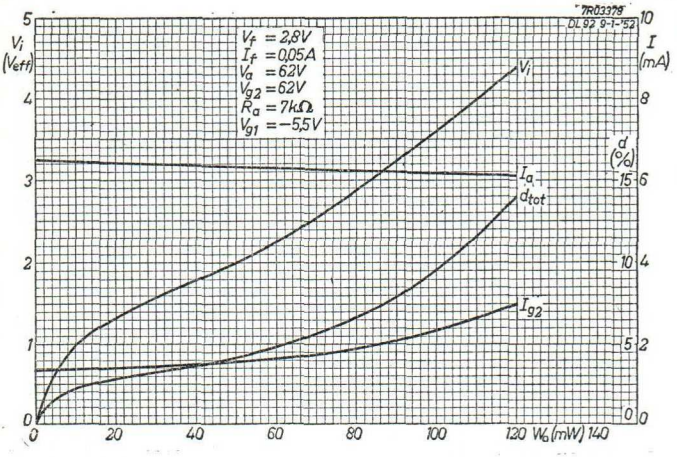
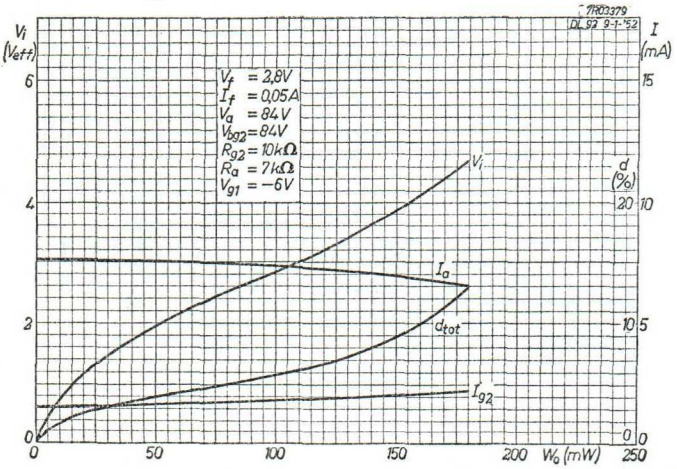
DL 92


7R03378
DL 92 9-1-'52
V_f = 2,8V
I_f = 0,05A
V_a = 62V
V_{g2} = 62V
R_a = 7kΩ
V_{g1} = −5,5V
V_i (V_{eff})
I (mA)
d (%)
I_a
d_{tot}
I_{g2}
W_a (mW)


7R03379
DL 92 9-1-'52
V_f = 2,8V
I_f = 0,05A
V_a = 84V
V_{bg2} = 84V
R_{g2} = 10kΩ
R_a = 7kΩ
V_{g1} = −6V
V_i (V_{eff})
I (mA)
d (%)
I_a
d_{tot}
I_{g2}
W_a (mW)