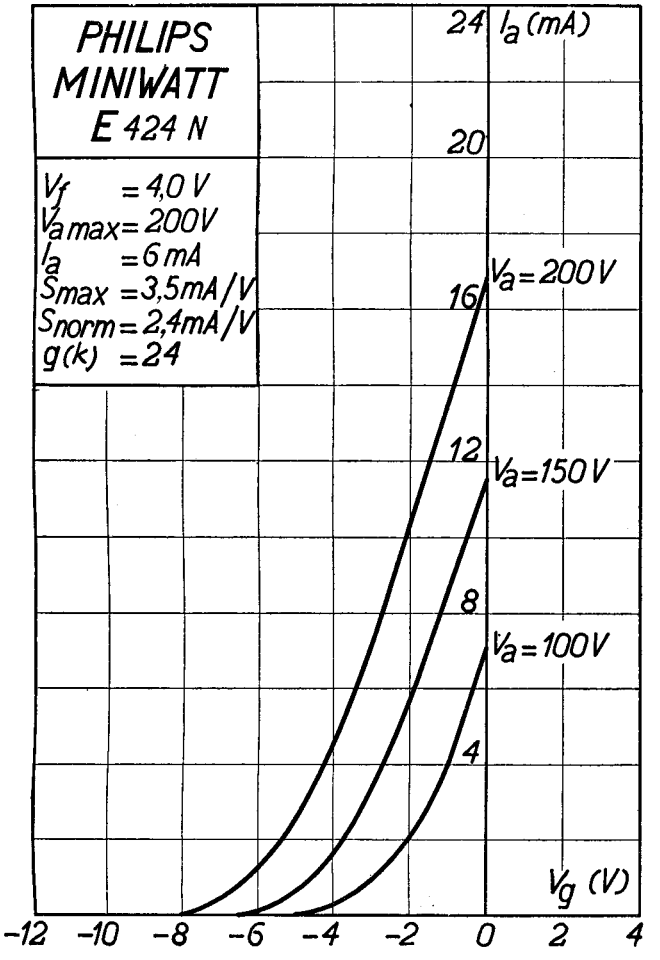
E 424N

PHILIPS „MINIWATT"

Heizspannung Tension de chauffage Filament voltage	V_f	=	4,0 V
Heizstrom Courant de chauffage Filament current	I_f	=	ca. env. 1,0 A appr.
Anodenspannung Tension anodique Anode voltage	$V_{a\ max}$	=	200 V
Normaler Anodenstrom Courant anodique normal Normal anode current	I_a	=	6 mA
Neg. Gittervorspannung Polarisation négative de grille Negative grid bias	V_g	=	ca. env. 3,5 V appr.
Verstärkungsfaktor Coefficient d'amplification Amplification factor	$g(k)$	=	24
Steilheit (max.) Inclinaison (max.) Slope (max.)	S_{max}	=	3,5 mA/V
Steilheit (norm.) Inclinaison (norm.) Slope (norm.)	S_{norm}	=	2,4 mA/V
Innerer Widerstand (norm.) Résistance intérieure (norm.) Internal resistance (norm.)	R_i	=	10000 Ohm
Anoden-Gitterkapazität Capacité grille-plaque Anode-grid capacity	C_{ag}	=	2 $\mu\mu$F
Max. Länge Longueur max. Overall length	l	=	97 mm
Grösster Durchmesser Diamètre max. Max. diameter	d	=	50 mm
Sockel Culot Base		=	0 35
Sockelschaltung Connexion du culot Base connection		=	S. VII

Anwendung: Applications: Function:	Audion Détecteur Detector
	N.F.-Verstärkung Amplification b.f. L.F. amplification
	Oszillator Oscillateur Oscillator


PHILIPS
MINIWATT
E 424 N
V_f = 4,0 V
V_a max = 200V
I_a = 6 mA
S_{max} = 3,5mA/V
S_{norm} = 2,4mA/V
g(k) = 24
I_a (mA)
24
20
16
12
8
4
V_a = 200 V
V_a = 150 V
V_a = 100 V
V_g (V)
-12
-10
-8
-6
-4
-2
0
2
4

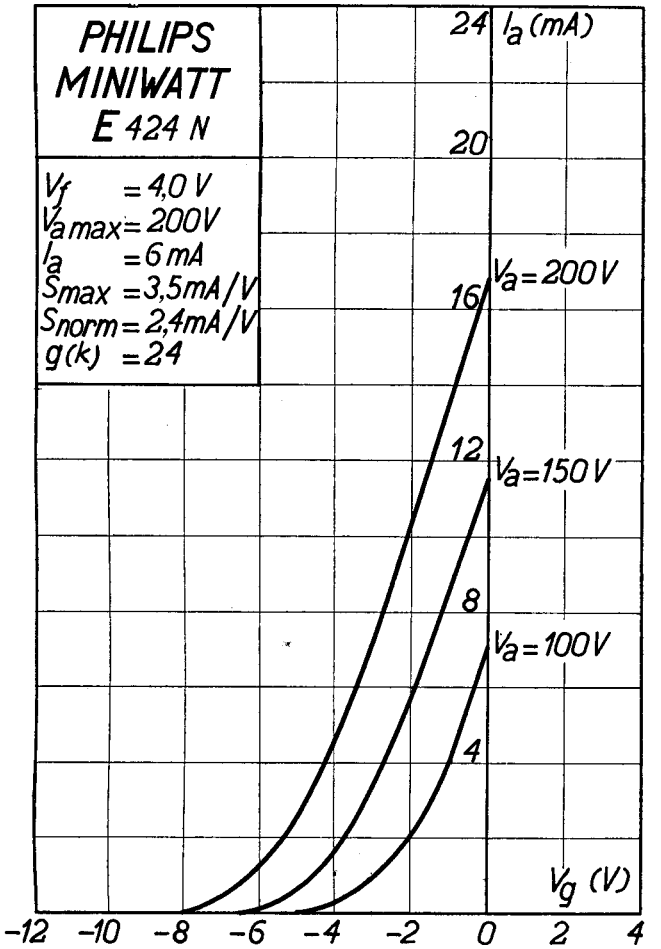
E 424N

PHILIPS „MINIWATT"

Heizspannung Tension de chauffage Filament voltage	V_f	=	4,0 V
Heizstrom Courant de chauffage Filament current	I_f	=	ca. env. 1,0 A appr.
Anodenspannung Tension anodique Anode voltage	$V_{a\ max.}$	=	200 V
Normaler Anodenstrom Courant anodique normal Normal anode current	I_a	=	6 mA
Neg. Gittervorspannung Polarisation négative de grille Negative grid bias	V_g	=	ca. env. 3,5 V appr.
Verstärkungsfaktor Coefficient d'amplification Amplification factor	$g(k)$	=	30
Steilheit (max.) Inclinaison (max.) Slope (max.)	$S_{max.}$	=	3,5 mA/V
Steilheit (norm.) Inclinaison (norm.) Slope (norm.)	$S_{norm.}$	=	2,4 mA/V
Innerer Widerstand (norm.) Résistance intérieure (norm.) Internal resistance (norm.)	R_i	=	12500 Ohm
Anoden-Gitterkapazität Capacité grille-plaque Anode-grid capacity	C_{ag}	=	2 $\mu\mu$F
Max. Länge Longueur max. Overall length	l	=	100 mm
Grösster Durchmesser Diamètre max. Max. diameter	d	=	46 mm
Sockel Culot Base		=	0 35
Sockelschaltung Connexion du culot Base connection		=	S VII

Anwendung: Applications: Function:	Audion Détecteur Detector
	N.F.-Verstärkung Amplification b.f. L.F. amplification
	Oszillator Oscillateur Oscillator

12/7'34


PHILIPS
MINIWATT
E 424 N
V_f = 4,0 V
V_a max = 200V
I_a = 6 mA
S_{max} = 3,5mA/V
S_{norm} = 2,4mA/V
g(k) = 24
24
I_a (mA)
20
16
12
8
4
V_a = 200 V
V_a = 150 V
V_a = 100 V
V_g (V)
-12
-10
-8
-6
-4
-2
0
2
4

E 424N

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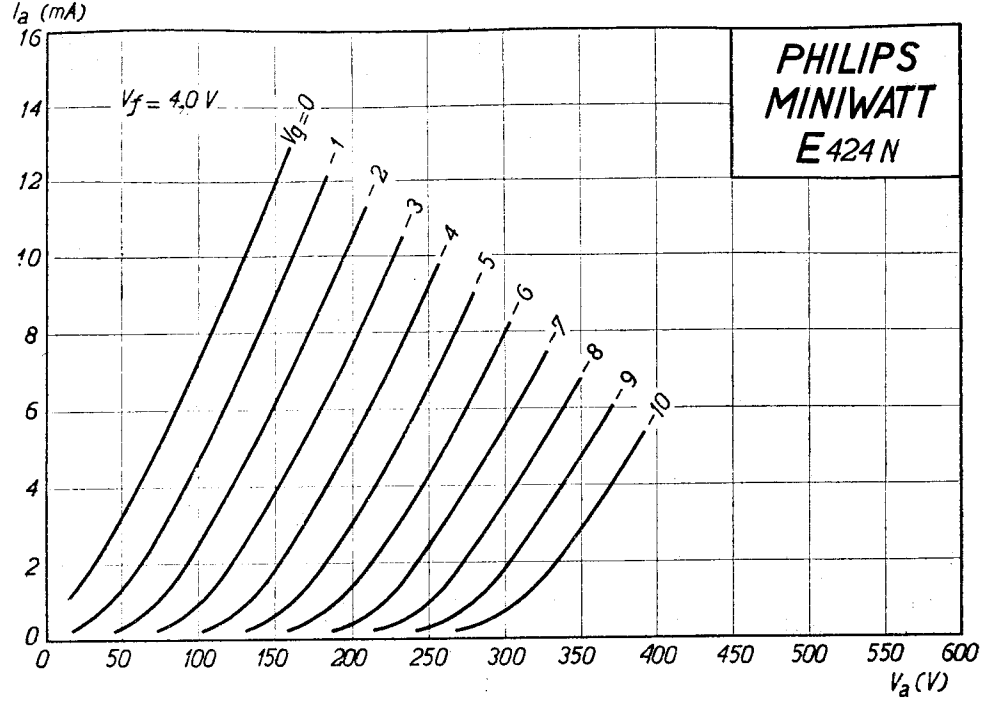
Max. Anodenspannung	V_{ao}	= 400 V
Tension anodique max.	V_{aR}	= 250 V
Max. anode voltage	V_{aL}	= 200 V
Max. Anodenbelastung	W_a	= 1,5 W
Dissipation anodique max.		
Max. anode dissipation		
Max. Kathodenstrom	I_c	= 15 mA
Courant cathodique max.		
Max. cathode current		
Gitterstrom-Einsatzpunkt	V_{gi}	= —1,3 V
Point de commenc. du courant de grille		
Starting point of grid current		
Max. Widerstand im Gitterkreis	R_{g1}	= 2,0 M.Ohm
Résistance max. dans le circuit de grille	R_{g2}	= 1,0 M.Ohm
Max. resistance in grid circuit		
Max. Spann. zwischen Faden und Kath.	V_{fc}	= 50 V*)
Tension max. entre filament et cathode		
Max. voltage between filam. and cathode		
Max. Widerst. zwischen Faden und Kath.	R_{fc}	= 20000 Ohm
Résist. max. entre filament et cathode		
Max. resist. betw. filament and cathode		
Kapazitäten	C_{ag}	= 2 $\mu\mu$F
Capacités	C_{ak}	= 7 $\mu\mu$F
Capacities	C_{gk}	= 5,5 $\mu\mu$F

*) Siehe Erläuterungen
Voir explications
See explanation


I_a (mA)
16
14
12
10
8
6
4
2
0
V_f = 4,0 V
V_g=0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
PHILIPS
MINIWATT
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0
50
100
150
200
250
300
350
400
450
500
550
600
V_a (V)

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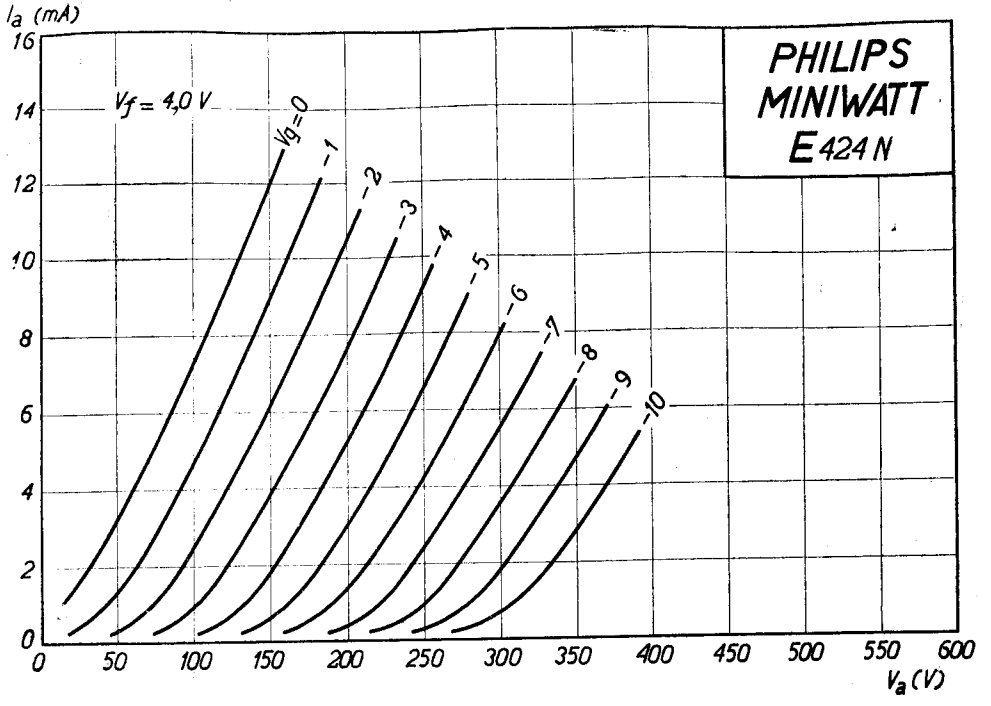
Max. Anodenspannung Tension anodique max. Max. anode voltage	V_{ao} V_{aR} V_{aL}	= 400 V = 250 V = 200 V
Max. Anodenbelastung Dissipation anodique max. Max. anode dissipation	W_a	= 1,5 W
Max. Kathodenstrom Courant cathodique max. Max. cathode current	I_c	= 15 mA
Gitterstrom-Einsatzpunkt Point de commenc. du cour. de grille Starting point of grid current	V_{gi}	= −1,3 V
Max. Widerstand im Gitterkreis Résistance max. dans le circuit de grille Max. resistance in grid circuit	R_{g1} R_{g2}	= 2,0 M.Ohm = 1,0 M.Ohm
Max. Spann. zwischen Faden und Kath. Tension max. entre filament et cathode Max. voltage between filam. and cathode	V_{fc}	= 50 V*)
Max. Widerst. zwischen Faden und Kath. Résist. max. entre filament et cathode Max. resist. betw. filament and cathode	R_{fc}	= 20000 Ohm
Kapazitäten Capacités Capacities	C_{ag} C_{ak} C_{gk}	= 2 $\mu\mu$F = 5,5 $\mu\mu$F = 5,5 $\mu\mu$F

*) Siehe Erläuterungen
Voir explications
See explanation


I_a (mA)
16
14
12
10
8
6
4
2
0
V_f = 4,0 V
V_g=0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
0
50
100
150
200
250
300
350
400
450
500
550
600
V_a (V)
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