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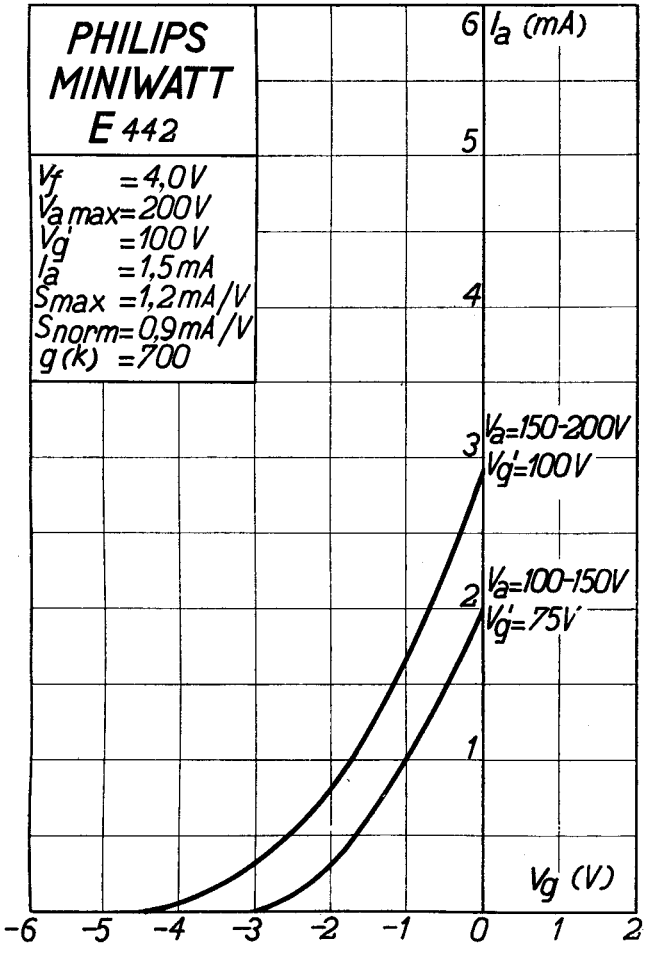
Heizspannung Tension de chauffage Filament voltage	v_f	=	4,0 V
Heizstrom Courant de chauffage Filament current	i_f	=	ca. env. 1,0 A appr.
Anodenspannung Tension anodique Anode voltage	$v_{a\,max.}$	=	200 V
Schirmgitterspannung Tension de grille-écran Screen-grid voltage	$v_{g'}$	=	100 V
Normaler Anodenstrom Courant anodique normal Normal anode current	i_a	=	1,5 mA
Neg. Gittervorspannung Polarisation négative de grille Negative grid bias	v_g	=	ca. env. 1,3 V appr.
Verstärkungsfaktor Coefficient d'amplification Amplification factor	$g\,(k)$	=	700
Steilheit (max.) Inclinaison (max.) Slope (max.)	$S_{\,max.}$	=	1,2 mA/V
Steilheit (norm.) Inclinaison (norm.) Slope (norm.)	$S_{\,norm.}$	=	0,9 mA/V
Innerer Widerstand (norm.) Résistance intérieure (norm.) Internal resistance (norm.)	R_i	=	800000 Ohm
Anoden-Gitterkapazität Capacité grille-plaque Anode-grid capacity	C_{ag}	=	0,005 $\mu\mu$F
Max. Länge Longueur max. Overall length	l	=	112 mm
Grösster Durchmesser Diamètre max. Max. diameter	d	=	47 mm
Sockel Culot Base		=	0 35
Sockelschaltung Connexion du culot Base connection		=	S X

Anwendung: H.F.-Verstärkung
Applications: Amplification h.f.
Function: H F. amplification
Z.F.-Verstärkung
Amplification m.f.
I.F. amplification


PHILIPS
MINIWATT
E 442
Vf =4,0V
Va max=200V
Vg' =100V
Ia =1,5mA
S max =1,2mA/V
S norm=0,9mA/V
g(k) =700
Ia (mA)
6
5
4
3
2
1
Va=150-200V
Vg'=100V
Va=100-150V
Vg'=75V
Vg (V)
-6
-5
-4
-3
-2
-1
0
1
2

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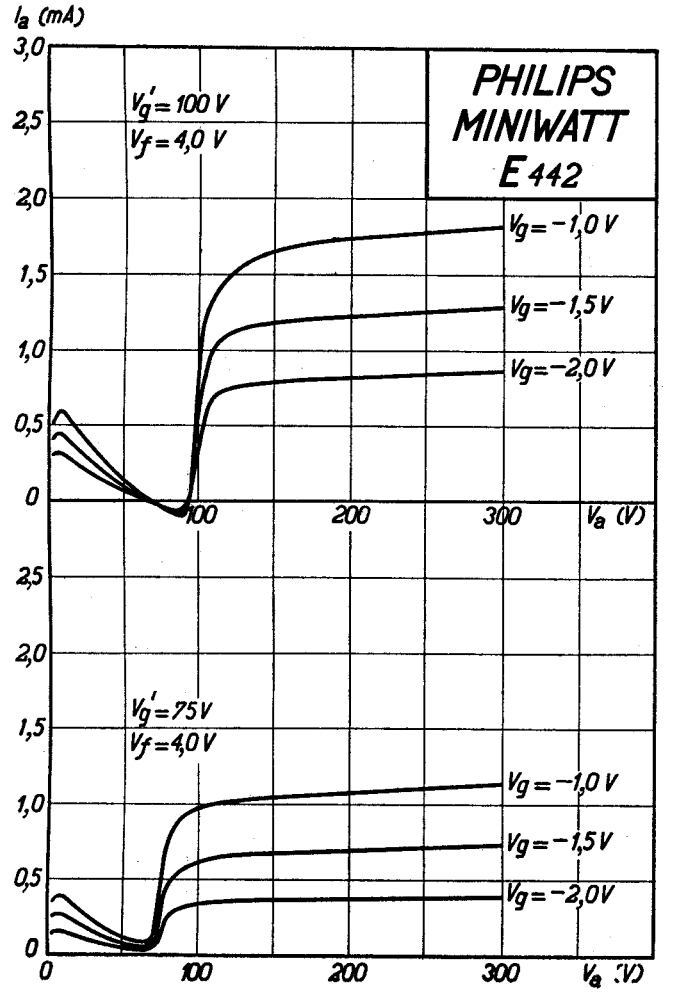
Max. Anodenspannung Tension anodique max. Max. anode voltage	V_{ao} V_{a_R} V_{a_L}	= 400 V = 250 V = 200 V
Max. Anodenbelastung Dissipation anodique max. Max. anode dissipation	W_a	= 1,0 W
Max. Kathodenstrom Courant cathodique max. Max. cathode current	I_c	= 10 mA
Max. Schirmgitterspannung Tension de grille-écran max. Max. screen-grid voltage	$V_{g'o}$ $V_{g'}$	= 300 V = V_a —30 V max. 150 V
Max. Schirmgitterbelastung Dissipation de grille-écran max. Max. screen-grid dissipation	$W_{g'}$	= 0,25 W
Mittlerer Schirmgitterstrom Courant de grille-écran moyen Average screen-grid current	$I_{g'}$	= 0,6 mA
Ungefähre Grenzw. des Schirmgitterstr. Limites approxim. du cour. de gr.-écran Approx. limits of screen-grid current	$I_{g'}$ min. $I_{g'}$ max.	= 0,2 mA = 0,9 mA
Gitterstrom-Einsatzpunkt Point de commenc. du courant de grille Starting point of grid current	V_{gi}	= —1,3 V
Max. Widerstand im Gitterkreis Point de commenc. du courant de grille Max. resistance in grid circuit	R_{g1} R_{g2}	= 1,5 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_g C_a C_{ag}	= 11 $\mu\mu$F = 8,3 $\mu\mu$F = 0,005 $\mu\mu$F


I_a (mA)
PHILIPS
MINIWATT
E 442
$V_g' = 100$ V
$V_f = 4{,}0$ V
$V_g = -1{,}0$ V
$V_g = -1{,}5$ V
$V_g = -2{,}0$ V
3,0
2,5
2,0
1,5
1,0
0,5
0
100
200
300
V_a (V)
$V_g' = 75$ V
$V_f = 4{,}0$ V
$V_g = -1{,}0$ V
$V_g = -1{,}5$ V
$V_g = -2{,}0$ V
0
100
200
300
V_a (V)

E 442

PHILIPS „MINIWATT"

Max. Anodenspannung Tension anodique max. Max. anode voltage	V_{ao} V_{aR} V_{a_L}	= 400 V = 250 V = 200 V
Max. Anodenbelastung Dissipation anodique max. Max. anode dissipation	W_a	= 1,0 W
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Max. Schirmgitterspannung Tension de grille-écran max. Max. screen-grid voltage	$V_{g'o}$ $V_{g'}$	= 300 V = V_a —50 V max. 150 V
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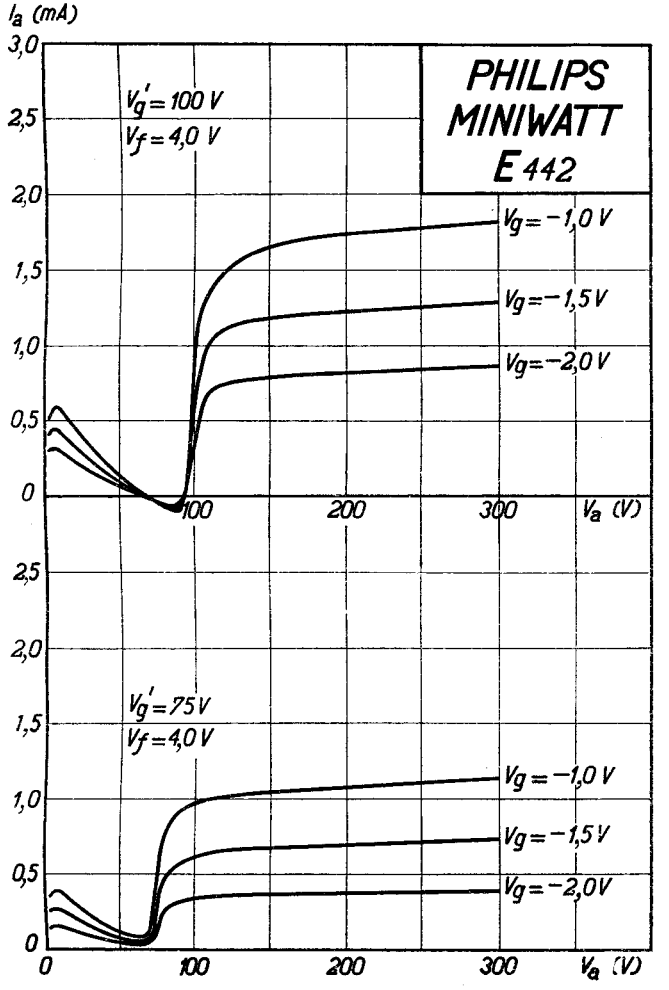
Mittlerer Schirmgitterstrom Courant de grille-écran moyen Average screen-grid current	$I_{g'}$	= 0,6 mA
Ungefähre Grenzw. des Schirmgitterstr. Limites approxim. du cour. de gr.-écran Approx. limits of screen-grid current	$I_{g'}$ min. $I_{g'}$ max.	= 0,2 mA = 0,9 mA
Gitterstrom-Einsatzpunkt Point de commenc. du courant de grille Starting point of grid current	V_{gi}	= —1,1 V
Max. Widerstand im Gitterkreis Résistance max. dans le circuit de grille Max. resistance in grid circuit	R_{g1} R_{g2}	= 1,5 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_g C_a C_{ag}	= 11 $\mu\mu$F = 8,3 $\mu\mu$F = 0,005 $\mu\mu$F


I_a (mA)
PHILIPS
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E 442
$V_g' = 100$ V
$V_f = 4{,}0$ V
$V_g = -1{,}0$ V
$V_g = -1{,}5$ V
$V_g = -2{,}0$ V
V_a (V)
$V_g' = 75$ V
$V_f = 4{,}0$ V
$V_g = -1{,}0$ V
$V_g = -1{,}5$ V
$V_g = -2{,}0$ V
V_a (V)