E 448

PHILIPS „MINIWATT"

Heizspannung Tension de chauffage Filament voltage	V_f	= 4 V
Heizstrom Courant de chauffage Filament current	I_f	= ca. env. appr. 1,2 A
Elektroden Spannungen Tensions d'électrodes Electrode voltages	V_a	= 200 V
	V_{g4}	= -3 V
	V_{g3}	= 200 V
	V_{g2}	= 100 V
	V_{g1}	= -1,5 V
Elektroden Strömen Courants d'électrodes Electrode currents	I_a	= 4 mA
	I_{g3}	= 10 mA
Max. Länge Longueur max. Overall length	l	= 130 mm
Grösster Durchmesser Diamètre max. Max. diameter	d	= 52 mm
Sockel Culot Base		= C 35
Sockelschaltung Connexion du culot Base connection		= S XVII

Anwendung: Oszillator-Modulator
Applications: Oscillateur-modulateur
Function: Oscillateur-modulateur

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Elektrodenströme Courants d'électrodes Electrode currents	I_a	= 4 mA
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Max. Länge Longueur max. Overall length	l	= 130 mm
Grösster Durchmesser Diamètre max. Max. diameter	d	= 52 mm
Sockel Culot Base		= C 35
Sockelschaltung Connexion du culot Base connection		= S XVII

Anwendung: Oszillator-Modulator
Application: Oscillateur-modulateur
Function: Oscillator-modulator

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Max. Elektroden Spannungen ..... Tensions d'électrodes max. ..... Max. electrode voltages	V_{ao}	= 400 V
	V_{a_R}	= 250 V
	V_{a_L}	= 200 V
	V_{g3o}	= 400 V
	V_{g3R}	= 200 V
	V_{g3L}	= 200 V
	V_{g2o}	= 200 V
	V_{g2}	= 120 V
Max. Elektroden Belastungen ..... Dissipations d'électrodes max. ..... Max. electroden dissipations	W_a	= > 1 W
	W_{g3}	= > 2 W
	W_{g2}	= 0,4 W
Max. Kathodenstrom ..... Courant cathodique max. ..... Max. cathode current	I_c	= 15 mA
Mittlerer Schirmgitterstrom ..... Courant de grille-écran moyen ..... Average screen-grid current	I_{g2}	= ca. env. 1,5 mA appr.
Gitterstrom-Einsatzpunkt ..... Point de commenc. du courant de grille Starting point of grid current	V_{g4i}	= -1,3 V
	V_{g1i}	= -1,3 V
Max. Spann. zwischen Faden und Kath. Tension max. entre filament et cathode Max. voltage between filam. and cathode	V_{fc}	= 20 V
Kapazitäten ..... Capacités ..... Capacities	C_{g1g3}	= ca. env. 0,015 $\mu\mu$F appr.
	C_a	= 12,5 $\mu\mu$F
	C_{g1}	= 7 $\mu\mu$F
	$C_{g3}+_{g4}$	= 11,5 $\mu\mu$F

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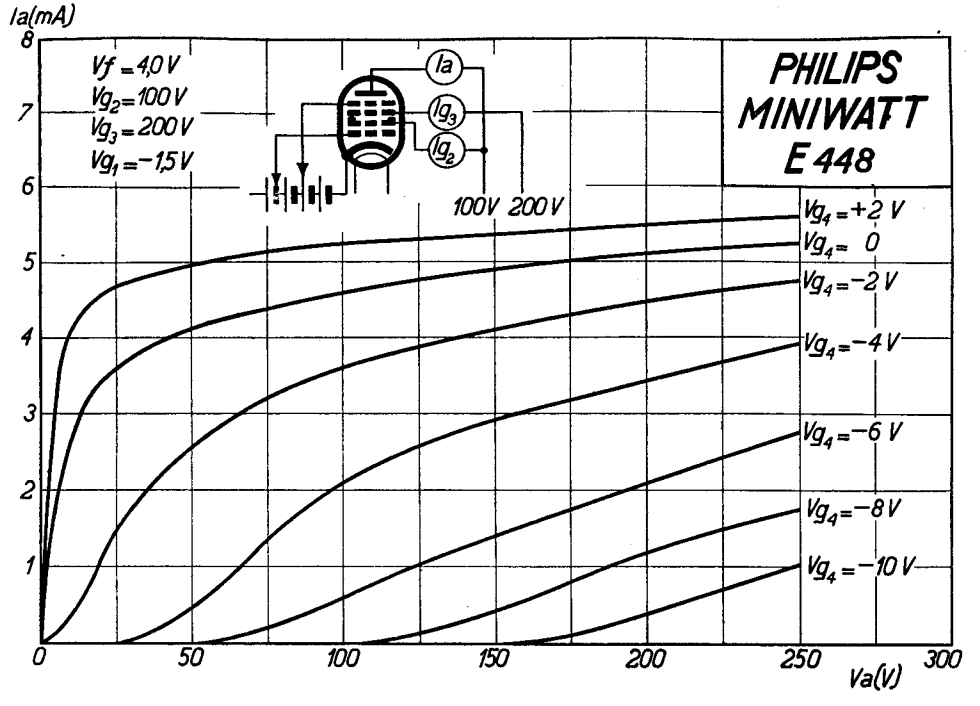
Ia(mA)
Vf = 4,0 V
Vg2 = 100 V
Vg3 = 200 V
Vg1 = −1,5 V
Ia
Ig3
Ig2
100 V
200 V
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Vg4 = +2 V
Vg4 = 0
Vg4 = −2 V
Vg4 = −4 V
Vg4 = −6 V
Vg4 = −8 V
Vg4 = −10 V
8
7
6
5
4
3
2
1
0
50
100
150
200
250
300
Va(V)

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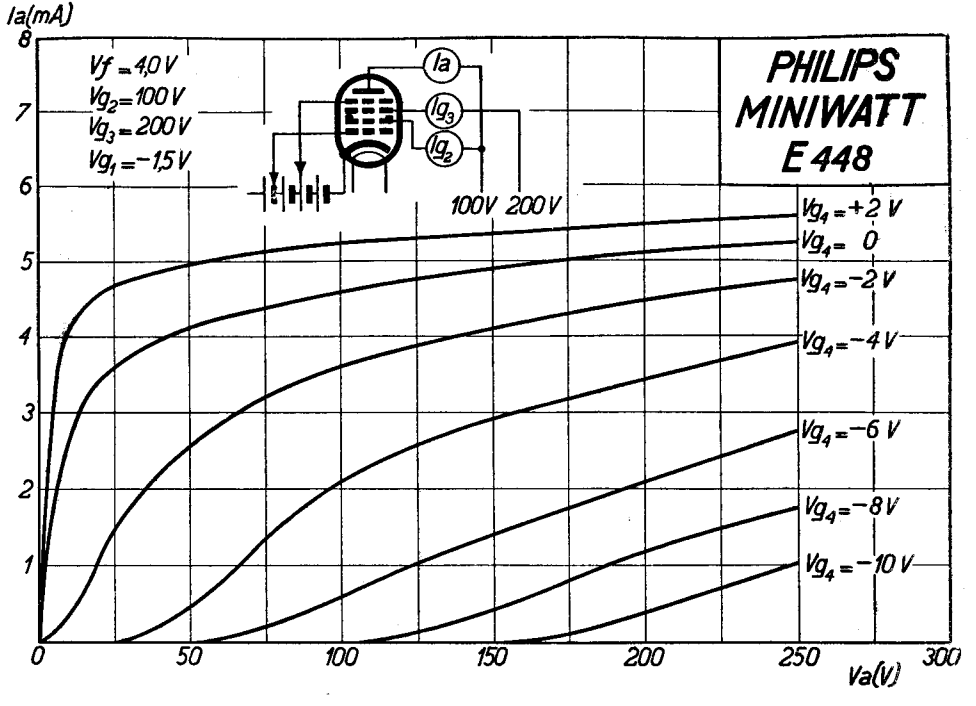
Max. Elektrodenspannungen ..... Tensions d'électrodes max. ..... Max. electrode voltages	V_{ao}	= 400 V
	V_{aR}	= 250 V
	V_{aL}	= 200 V
	V_{g3o}	= 400 V
	V_{g3R}	= 200 V
	V_{g3L}	= 200 V
	V_{g2o}	= 200 V
	V_{g2}	= 120 V
Max. Elektrodenbelastungen ..... Dissipations d'électrodes max. ..... Max. electroden dissipations	W_a	= > 1 W
	W_{g3}	= > 2 W
	W_{g2}	= 0,4 W
Max. Kathodenstrom ..... Courant cathodique max. ..... Max. cathode current	I_c	= 15 mA
Mittlerer Schirmgitterstrom ..... Courant de grille-écran moyen ..... Average screen-grid current	I_{g2}	= ca. env. 1,5 mA appr.
Gitterstrom-Einsatzpunkt ..... Point de commenc. du courant de grille Starting point of grid current	V_{g4i}	= -1,3 V
	V_{g1i}	= -1,3 V
Max. Spann. zwischen Faden und Kath. Tension max. entre filament et cathode Max. voltage between filam. and cathode	V_{fc}	= 20 V
Max. Widerst. zwischen Faden und Kath. Résistance max. entre filam. et cathode Max. résistance betw. filam. and cathode	R_{fc}	= 20,000 Ohm
Kapazitäten ..... Capacités ..... Capacities	C_{g1g3}	= ca. env. 0,015 $\mu\mu$F appr.
	C_a	= 12,5 $\mu\mu$F
	C_{g1}	= 7 $\mu\mu$F
	C_{g3+g4}	= 11,5 $\mu\mu$F


Ia(mA)
8
7
6
5
4
3
2
1
0
50
100
150
200
250
300
Va(V)
Vf = 4,0 V
Vg2 = 100 V
Vg3 = 200 V
Vg1 = −1,5 V
Ia
Ig3
Ig2
100V 200V
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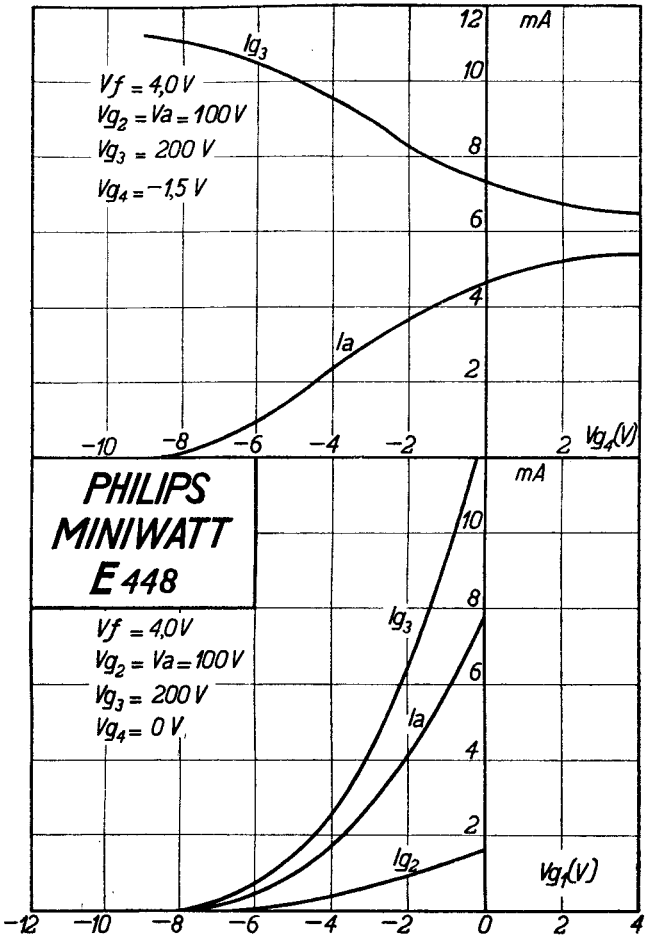
Vg4 = +2 V
Vg4 = 0
Vg4 = −2 V
Vg4 = −4 V
Vg4 = −6 V
Vg4 = −8 V
Vg4 = −10 V


12
mA
10
8
6
4
2
Ig3
Vf = 4,0 V
Vg2 = Va = 100 V
Vg3 = 200 V
Vg4 = −1,5 V
Ia
−10
−8
−6
−4
−2
2
Vg4(V)
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mA
10
8
6
4
2
Ig3
Vf = 4,0 V
Vg2 = Va = 100 V
Vg3 = 200 V
Vg4 = 0 V
Ia
Ig2
Vg1(V)
−12
−10
−8
−6
−4
−2
0
2
4