

PENTODE for use as H.F. amplifier and oscillator
 PENTHODE pour utilisation en amplificatrice H.F. et oscillatrice
 PENTODE zur Verwendung als H.F. Verstärker und Oszillator

Filament : thoriated tungsten
 Filament : tungstène thorié
 Heizfaden : thoriertes Wolfram

Heating : direct
 Chauffage : direct
 Heizung : direkt

$V_f = 12 \text{ V}$
 $I_f = 8,5 \text{ A}$

Capacitances
 Capacités
 Kapazitäten

$C_a = 21 \text{ pF}$
 $C_{g1} = 29 \text{ pF}$
 $C_{ag1} = 0,05 \text{ pF}$

Typical characteristics
 Caractéristiques types
 Kenndaten

$\mu_{g2g1} = 3,5$
 $S (I_a = 225 \text{ mA}) = 6,5 \text{ mA/V}$

m	Freq. Mc/s	C telegr.		B teleph.	
		V_a (V)	W_o (W)	V_a (V)	W_o (W)
>30	<10	3000	1200	3000	190
>15	<20	2500	950	2500	130
5	60	1800	485	1800	68
		C _{ag2} mod.		C _{g3} mod.	
>30	<10	2500	580	3000	200
>15	<20	2000	425	2500	150

B mod. ¹⁾	
V_a (V)	W_o (W)
3000	1600

Limiting values
 Caractéristiques limites
 Grenzdaten

$V_a = \text{max. } 3000 \text{ V}$ $R_{g3} = \text{max. } 30 \text{ k}\Omega$
 $W_a = \text{max. } 450 \text{ W}$ $W_{g1} = \text{max. } 20 \text{ W}$
 $V_{g2} = \text{max. } 600 \text{ V}$ $R_{g1} = \text{max. } 30 \text{ k}\Omega$
 $V_{g2}(\text{B mod.}) = \text{max. } 750 \text{ V}$ $I_k = \text{max. } 700 \text{ mA}$
 $W_{g2} = \text{max. } 100 \text{ W}$ $I_{kp} = \text{max. } 4500 \text{ mA}$

temperature of pin seals a and g₃
 temp. des points de scellement
 des broches a et g₃
 Temp. der Verschlüsse a und g₃ } = max. 200 °C

¹⁾ Two tubes, deux tubes, zwei Röhren.

To insure safe seal temperatures a low velocity air flow is required above 60 Mc/s

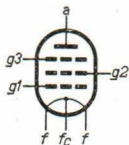
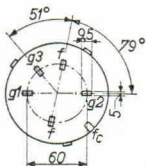
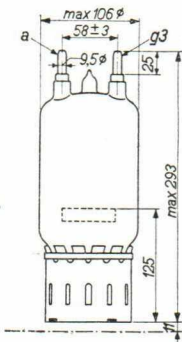
Un courant d'air à vitesse peu élevée est nécessaire aux fréquences dépassant 60 Mc/s pour assurer une température assez basse aux points de scellement

Bei Frequenzen höher als 60 MHz ist ein schwacher Luftstrom notwendig, damit die Temperatur der Stiftenverschlüsse die höchstzulässige Temperatur nicht überschreitet.

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Socket
Support
Fassung

40201

Clips

Bornes de connexion

Anschlussklemmen

40626

Mounting position: vertical with base up¹⁾ or down
Montage : vertical avec culot en haut¹⁾ ou en bas

Einbau : senkrecht mit Sockel oben¹⁾ oder unten

Net weight

Poids net

Nettogewicht

0,78 kg

Shipping weight

Poids brut

Bruttogewicht

2,5 kg

¹⁾ In that case it is recommended to support the tube

Dans ce cas il est recommandé de supporter le tube
In diesem Fall empfiehlt es sich die Röhre zu stützen

Operating conditions H.F. class C telegraphy
 Caractéristiques d'utilisation H.F. classe C télé-
 graphie
 Betriebsdaten H.F. Klasse C Telegraphie

Vg2 = Vg3

λ	=	>30	>15	5 ¹⁾	m
Va	=	3000	2500	1800	V
Vg1	=	-200	-200	-150	V
Vg2=Vg3	=	300	300	300	V
Ia	=	550	550	985	mA
Ig1	=	25	20	30	mA
Ig2+g3	=	100	100	200	mA
Vg1p	=	370	360	300	V
Wig1	=	9	7	9	W
Wg2+g3	=	30	30	60	W
Wia	=	1650	1375	1775	W
Wa	=	450	425	800	W
Wo	=	1200	950	975	W
η	=	72,5	69	55	%

Vg3 = 0

λ	=	>30	>15	5 ¹⁾	m
Va	=	3000	2500	1800	V
Vg1	=	-300	-300	-200	V
Vg2	=	500	500	500	V
Vg3	=	0	0	0	V
Ia	=	465	470	945	mA
Ig1	=	20	20	30	mA
Ig2	=	200	200	320	mA
Vg1p	=	450	450	350	V
Wig1	=	9	9	11	W
Wg2	=	100	100	160	W
Wia	=	1400	1175	1700	W
Wa	=	450	450	800	W
Wo	=	950	725	900	W
η	=	68	61,5	53	%

¹⁾ Two valves; deux tubes; zwei Röhren

Operating conditions H.F. class B telephony
 Caractéristiques d'utilisation H.F. classe B téléphonie
 Betriebsdaten H.F. Klasse B Telephonie

λ	=	>30	>15	5 ¹⁾	m
Va	=	3000	2500	1800	V
Vg1	=	-120	-115	-90	V
Vg2	=	500	500	420	V
Vg3	=	0	0	0	V
Ia	=	215	230	350	mA
Ig2	=	30	30	50	mA
Vg1p	=	80	75	60	V
Wg2	=	15	15	21	W
Wia	=	640	580	630	W
Wa	=	450	450	495	W
Wo	=	190	130	135	W
η	=	30	22	21	%

m	=	100	100	100	%
Ig1	=	4	3	6	mA
Wig1	=	0,7	0,5	0,8	W

¹⁾ Two valves; deux tubes; zwei Röhren

Operating conditions H.F. class C
Caractéristiques d'utilisation H.F. classe C
Betriebsdaten H.F. Klasse C

anode- and screen grid modulation modulation d'anode et de grille-écran Anoden- und Schirm- gittermodulation			suppressor grid modulation modulation de grille d'arrêt Fanggittermodulation			
λ	=	>30 >15	>30 >15	>30 >15	>30 >15	m
V_a	=	2500 2000	3000 2500	3000 2500	3000 2500	V
V_{g1}	=	-300 -300	-300 -300	-300 -300	-300 -300	V
V_{g2}	=	500 500	600 600	600 600	600 600	V
V_{g3}	=	0 0	-190 -170	-210 -200	-200 -200	V
I_a	=	325 315	190 165	175 175	175 175	mA
I_{g1}	=	7 7	5 5	5 5	5 5	mA
I_{g2}	=	135 135	165 165	165 165	165 165	mA
V_{g1p}	=	385 385	335 335	335 335	335 335	V
W_{ig1}	=	2,7 2,7	1,7 1,7	1,7 1,7	1,7 1,7	W
W_{g2}	=	67 67	100 100	100 100	100 100	W
W_{ia}	=	815 630	570 415	525 425	425 425	W
W_a	=	235 205	370 265	360 325	325 325	W
W_o	=	580 425	200 150	165 100	100 100	W
η	=	71 67,5	35 36	31 23,5	23,5 23,5	%
m	=	100 100	80 80	100 100	100 100	%
V_{g2p}	=	500 500				V
V_{g3p}	=		190 170	210 200	200 200	V
W_{mod}	=	440 350	0 0	0 0	0 0	W

Operating conditions as L.F. class B amplifier and modulator, two valves

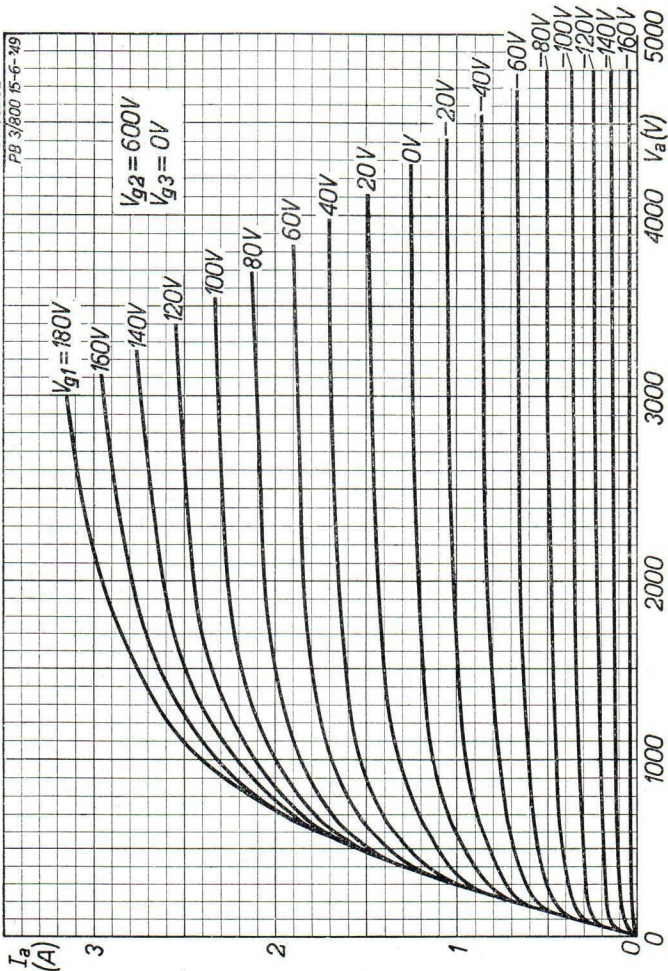
Caractéristiques d'utilisation comme amplificatrice et modulatrice B.F. classe B, deux tubes

Betriebsdaten als N.F. Verstärker und Modulator Klasse B, zwei Röhren

Va	=	3000	V
Vg1	=	-160	V
Vg2	=	600	V
Vg3	=	0	V
Raa	=	8,8	kΩ
Vg1g1p	=	0	360 V
Ia	=	2x50	2x385 mA
Ig1	=	0	2x6 mA
Ig2	=	2x8	2x105 mA
Wig1	=	0	2x1,1 W
Wg2	=	2x4,8	2x63 W
Wia	=	2x150	2x1155 W
Wa	=	2x150	2x355 W
Wo	=	0	1600 W
η	=	-	69 %

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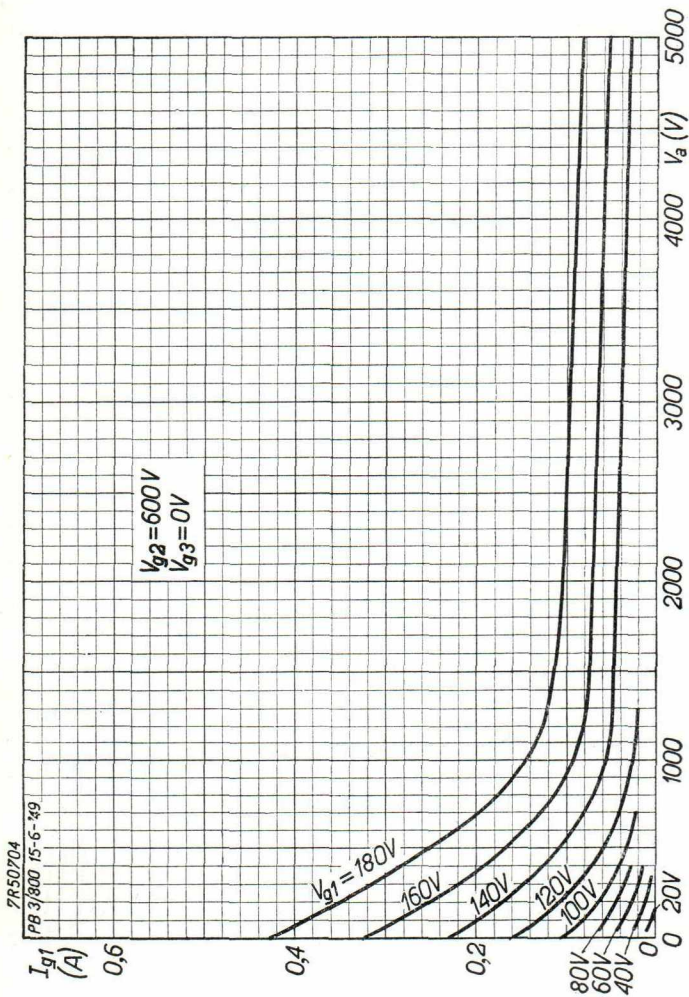


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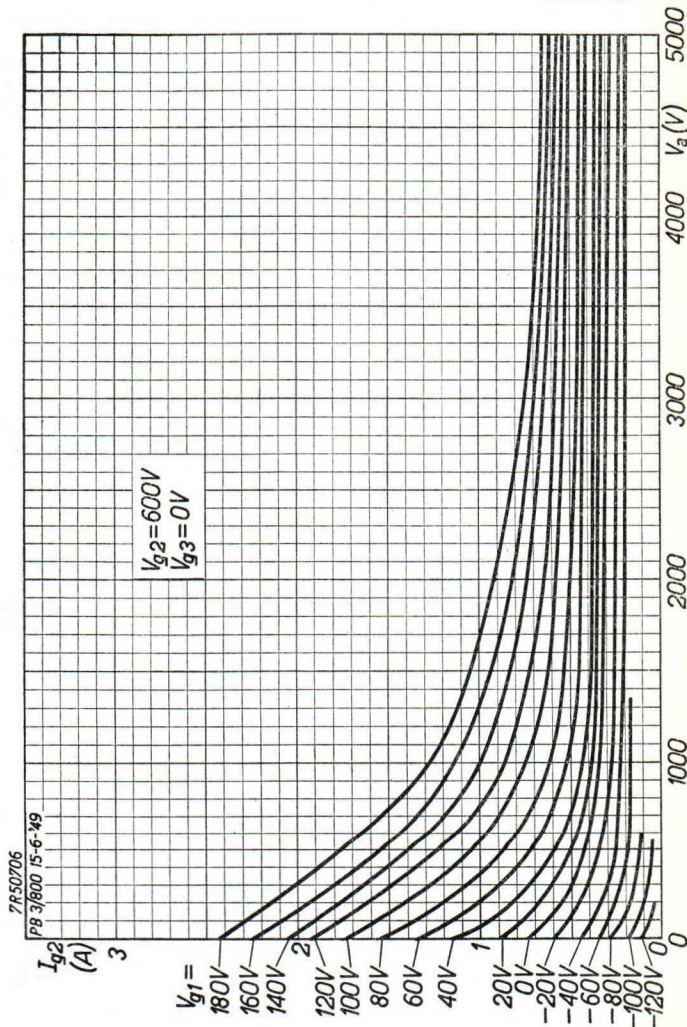
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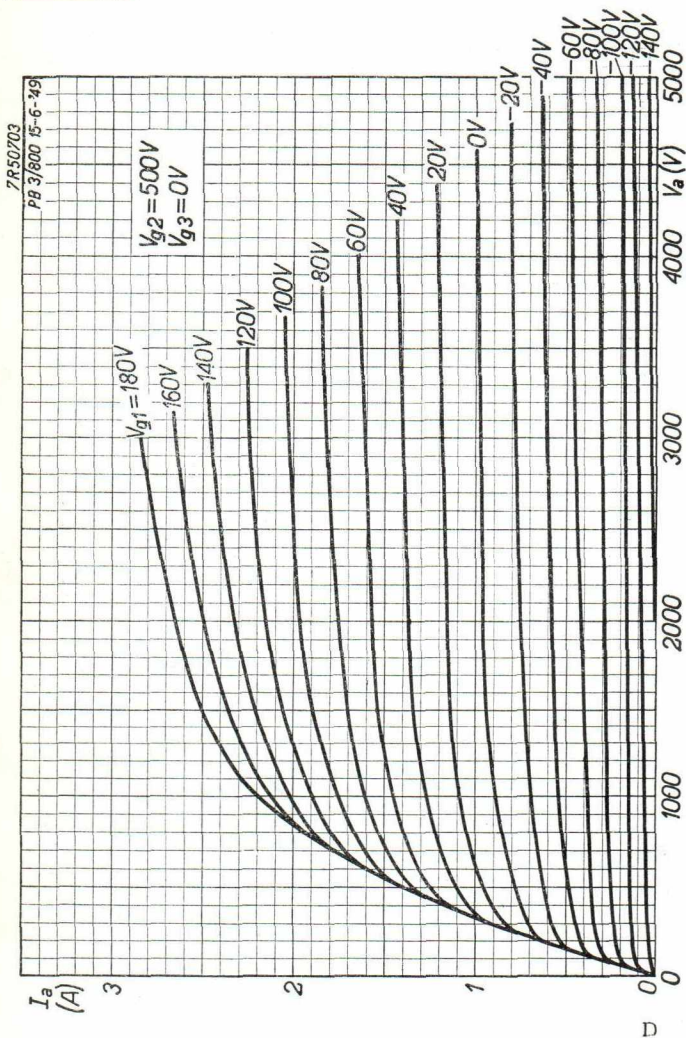
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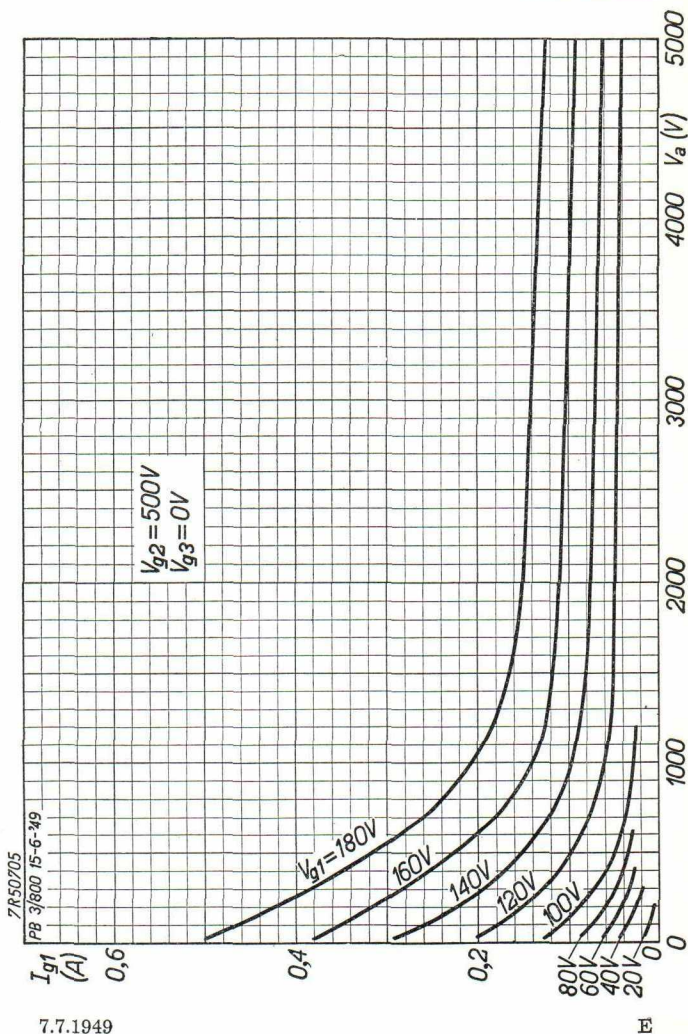
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B





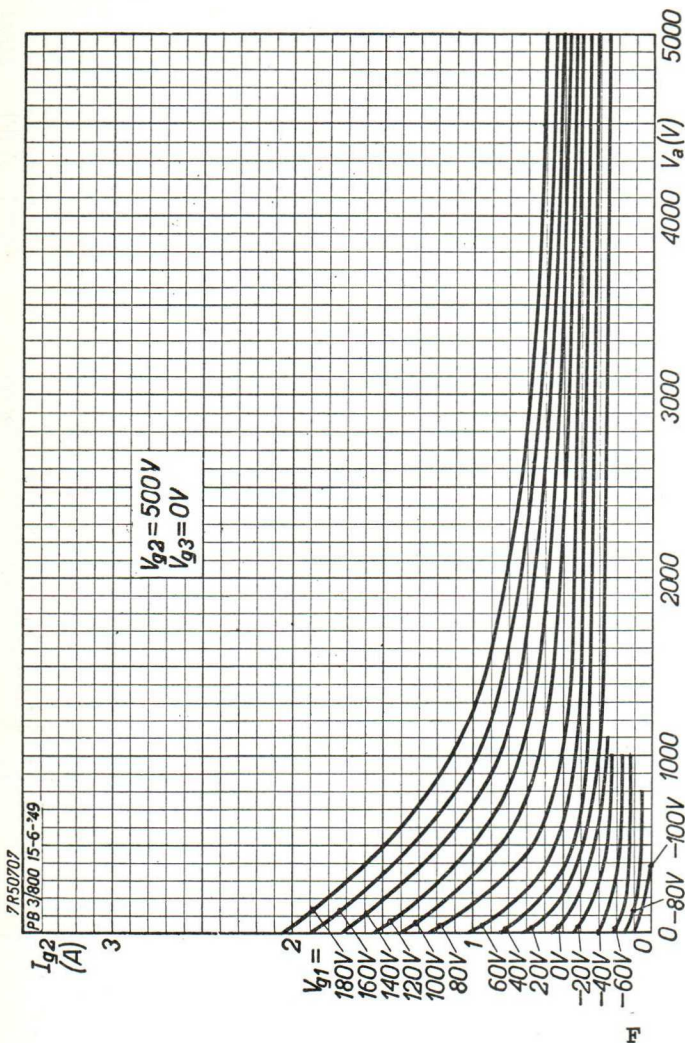


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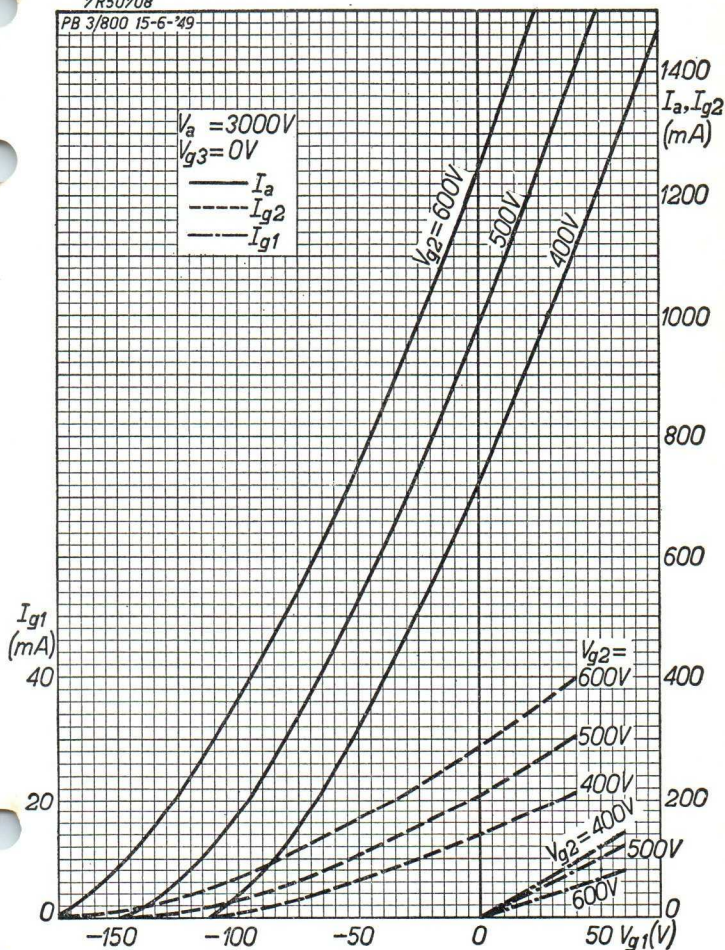
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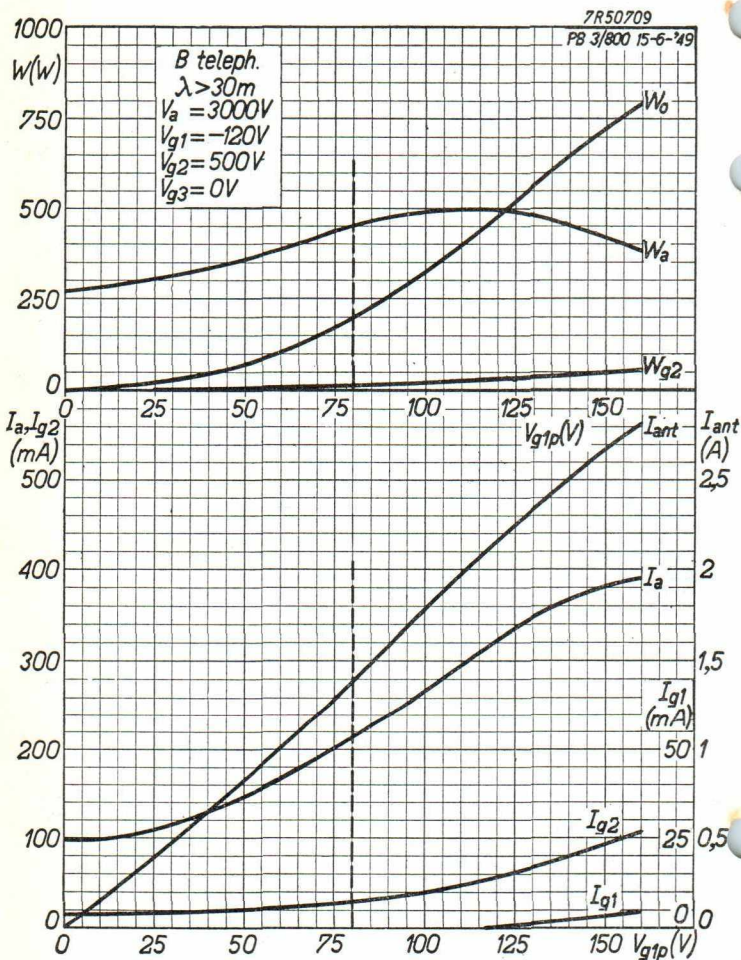


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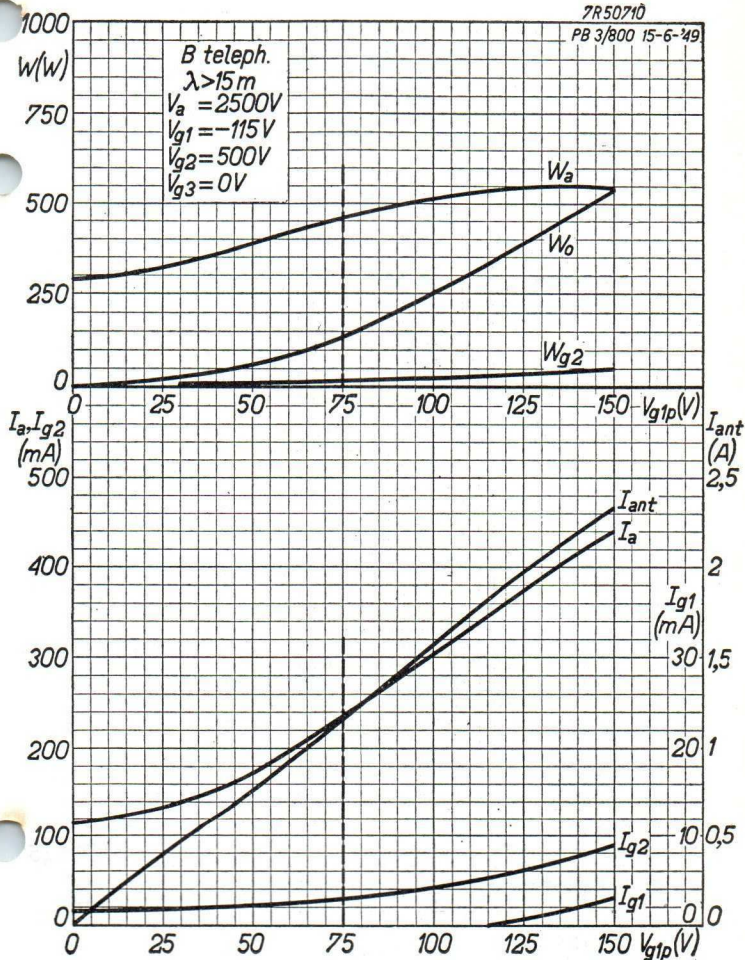
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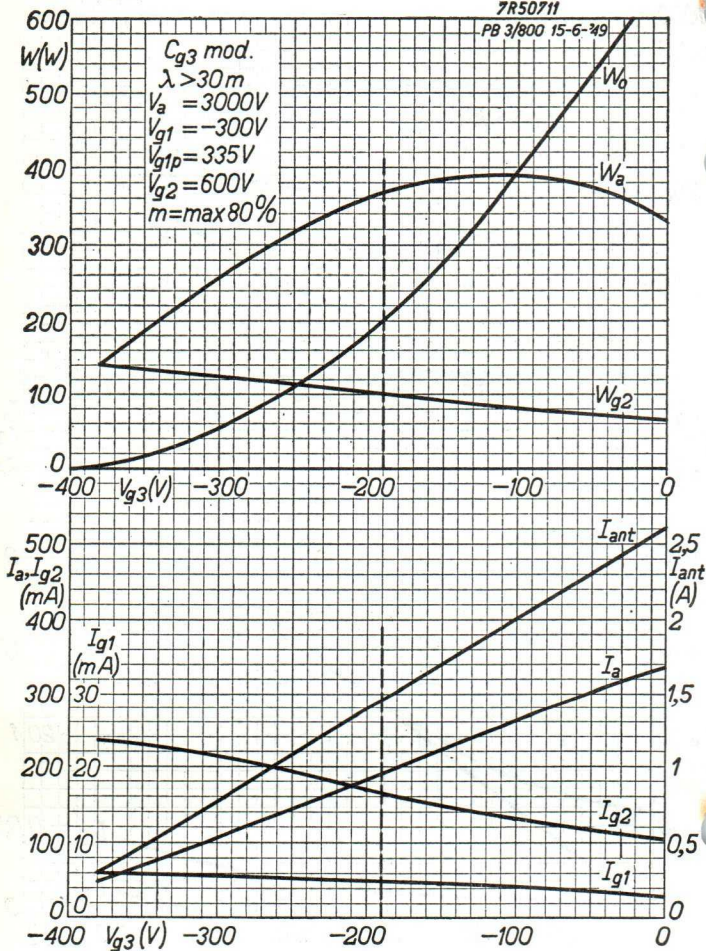
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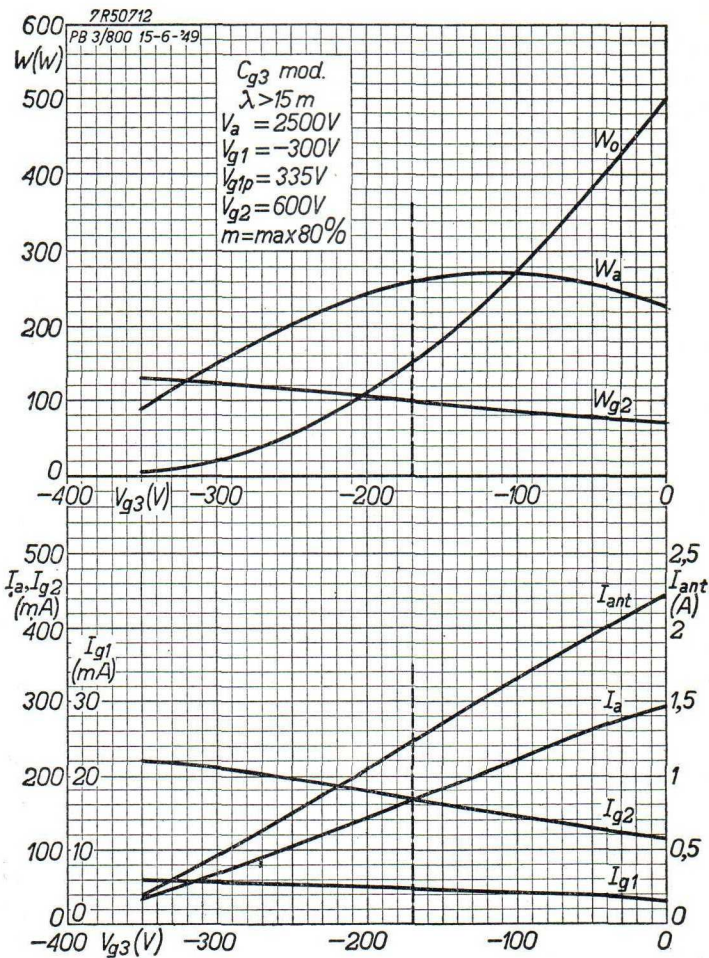
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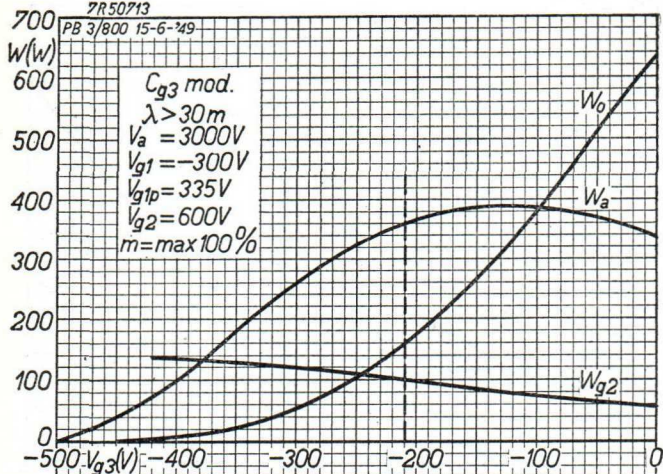
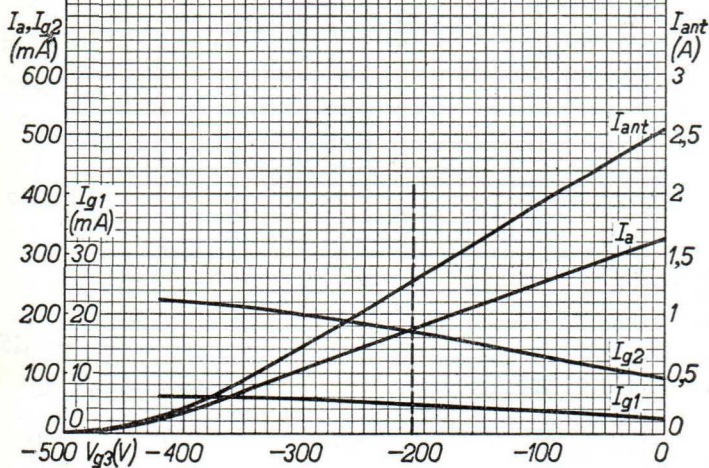


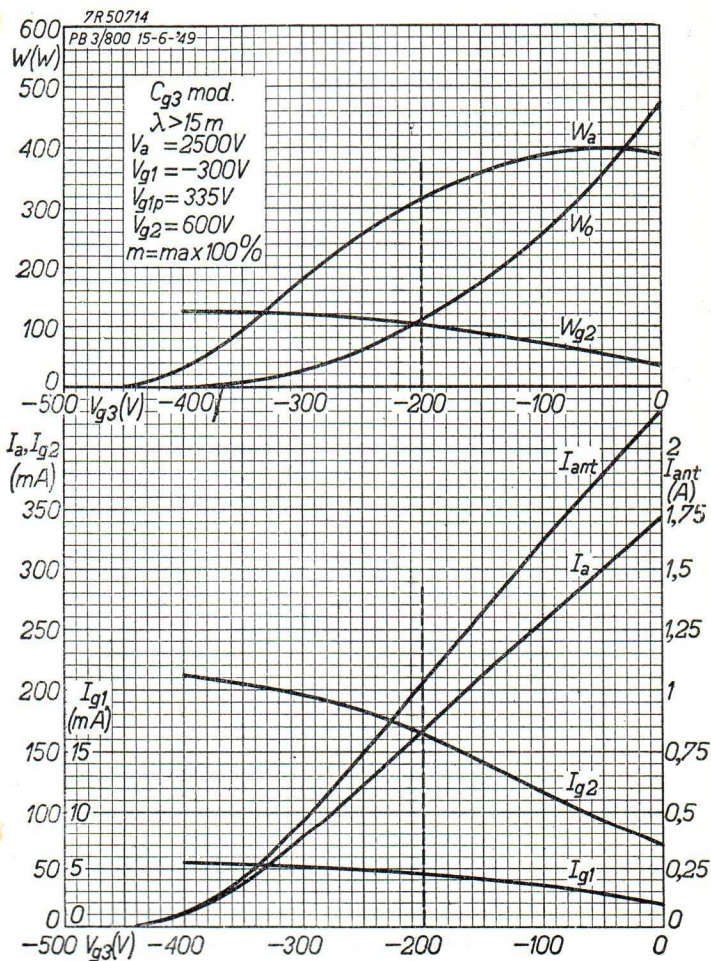
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