

PENTODE for use as H.F. or L.F. amplifier
 PENTHODE pour utilisation en amplificatrice H.F. ou B.F.

PENTODE zur Verwendung als HF- oder NF-Verstärker

Cathode : oxide-coated

Cathode : oxyde

Katode : Oxyd

Heating : indirect

Chauffage: indirect

Heizung : indirekt

PE 06/40 P

PE 06/40 N

PE 06/40 E

Vf = 6,3 V

If = 1,3 A

Vf = 12,6 V

If = 0,65 A

Capacitances

Capacités

Kapazitäten

Ca = 8,7 pF

Cg1 = 15 pF

Cag1 = 0,1 pF

Typical characteristics

Caractéristiques types

Kenndaten

$\mu g_{2g1} = 5,5$

S ($I_a = 40$ mA) = 4 mA/V

λ	Freq.	C telegr.		B teleph.		Cag2 mod.	
m	Mc/s	Va (V)	Wo (W)	Va (V)	Wo (W)	Va (V)	Wo (W)
>15	<20	600	45	600	11	500	40
5	60	600	36	600	6,5	500	20

λ	Freq.	C fr.mult.		B mod. 1)	
m	Mc/s	Va (V)	Wo (W)	Va (V)	Wo (W)
150/75	2/4	600	27	600	100

Limiting values

Caractéristiques limites

Grenzdaten

Va = max. 600 V

Wa = max. 25 W

Vg2 = max. 300 V

Wg2 = max. 5 W

Wg1 = max. 1 W

Rg1 = max. 100 k Ω

Rg1 = max. 200 k Ω

Ik = max. 130 mA

Ikp = max. 520 mA

Vfk = max. 75 V

¹⁾ Two tubes ; deux tubes; zwei Röhren

²⁾ With fixed grid bias; à polarisation fixe; mit fester Gittervorspannung

³⁾ With automatic grid bias; à polarisation automatique; mit automatischer Gittervorspannung

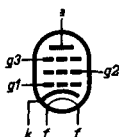
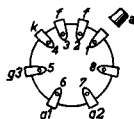
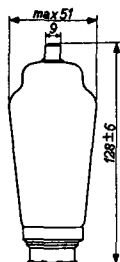
PE 06/40

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Dimensions in mm
Dimensions en mm
Abmessungen in mm

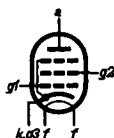
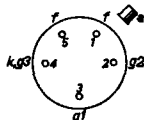
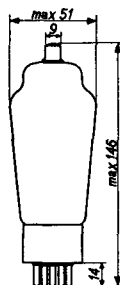
PE 06/40 P

Base
Culot P
Sockel



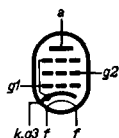
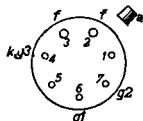
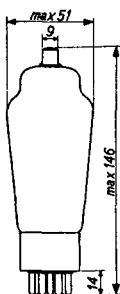
PE 06/40 N

Base
Culot N
Sockel



PE 06/40 E

Base
Culot E
Sockel



Socket for
Support pour
Fassung für

PE 06/40 P
PE 06/40 N
PE 06/40 E

5900/02
40219
40220

Cap; capot; haube

28 906 022

Mounting position: arbitrary
 Montage : arbitrairement
 Einbau : willkürlich

Net weight
 Poids net 65 g
 Nettogewicht

Shipping weight
 Poids brut 90 g
 Bruttogewicht

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

λ	=	>15	>15	5 ¹⁾	m
Va	=	600	600	600	V
Vg1	=	-75	-40	-75	V
Vg2	=	300	300	300	V
Vg3	=	0	0	0	V
Ia	=	109	109	195	mA
Ig1	=	2	0	0	mA
Ig2	=	11,5	11	20	mA
Vg1p	=	90	40	75	V
Wig1	=	0,2	0	0	W
Wg2	=	3,5	3,3	6	W
Wia	=	65	65	117	W
Wa	=	20	25	45	W
Wo	=	45	40	72	W
η	=	69	62	62	%

¹⁾ Two tubes ; deux tubes ; zwei Röhren

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

λ	=	>15	5 ¹⁾	m
Va	=	600	600	V
Vg1	=	-40	-38	V
Vg2	=	250	250	V
Vg3	=	0	0	V
Ia	=	60	104	mA
Ig2	=	3	5,5	mA
Vg1p	=	20	17,5	V
Wg2	=	0,75	1,4	W
Wia	=	36	63	W
Wa	=	25	50	W
Wo	=	11	13	W
η	=	30,5	20,5	%
<hr/>				
m	=	100	100	%
Ig1	=	0	0	mA
Wig1	=	0	0	W

Operating conditions as class C frequency multiplier
 Caractéristiques d'utilisation comme multiplicatrice
 de fréquence classe C
 Betriebsdaten als Klasse C Frequenzvervielfacher

λ	=	150/75	m
Va	=	600	V
Vg1	=	-100	V
Vg2	=	300	V
Vg3	=	0	V
Ia	=	87	mA
Ig1	=	1	mA
Ig2	=	11	mA
Vg1p	=	110	V
Wig1	=	0,1	W
Wg2	=	3,3	W
Wia	=	52	W
Wa	=	25	W
Wo	=	27	W
η	=	52	%

¹⁾ Two valves; deux tubes; zwei Röhren

Operating conditions H.F. class C anode- and screen grid modulation

Caractéristiques d'utilisation H.F. classe C modulation d'anode et de grille-écran

Betriebsdaten H.F.Klasse C Anoden- und Schirmgittermodulation

λ	=	>15	5 ¹⁾	m
Va	=	500	500	V
Vg1	=	-75	-55	V
Vg2	=	300 ²⁾	160 ³⁾	V
Vg3	=	0	0	V
Ia	=	114	146	mA
Ig1	=	1,4	2	mA
Ig2	=	10	10	mA
Vg1p	=	90	75	V
Wig1	=	0,1	0,15	W
Wg2	=	3	1,6	W
Wia	=	57	73	W
Wa	=	17	33	W
Wo	=	40	40	W
η	=	70	55	%
<hr/>				
m	=	100	100	%
Vg2p	=	300	160	V
Wmod	=	30	40	W

¹⁾ Two valves; deux tubes; zwei Röhren

²⁾ Rg2 = 20 k Ω

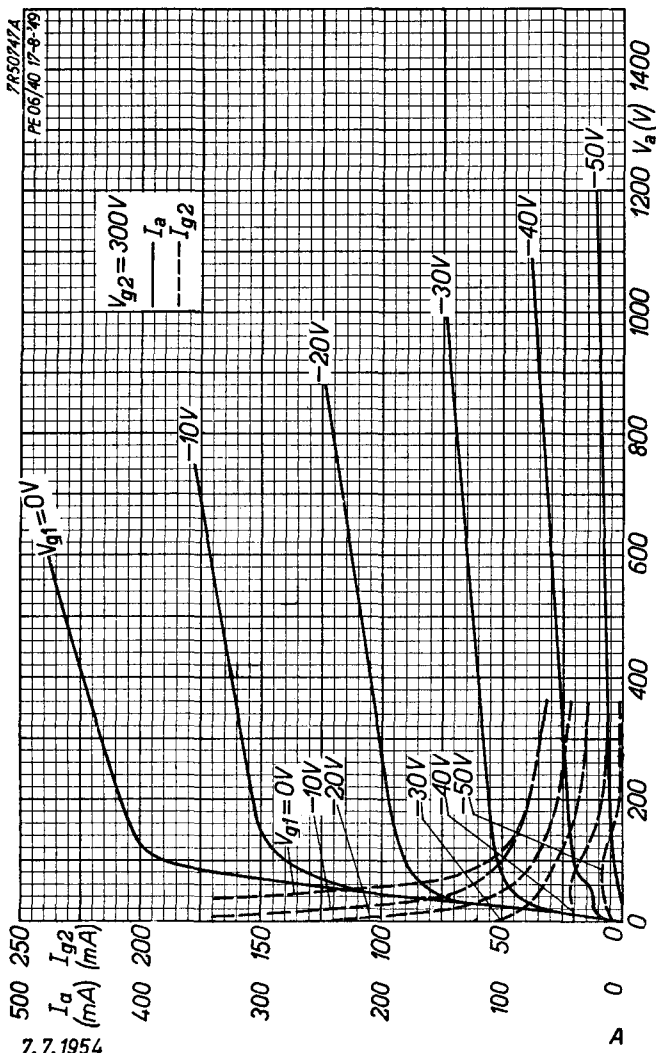
³⁾ Rg2 = 34 k Ω

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

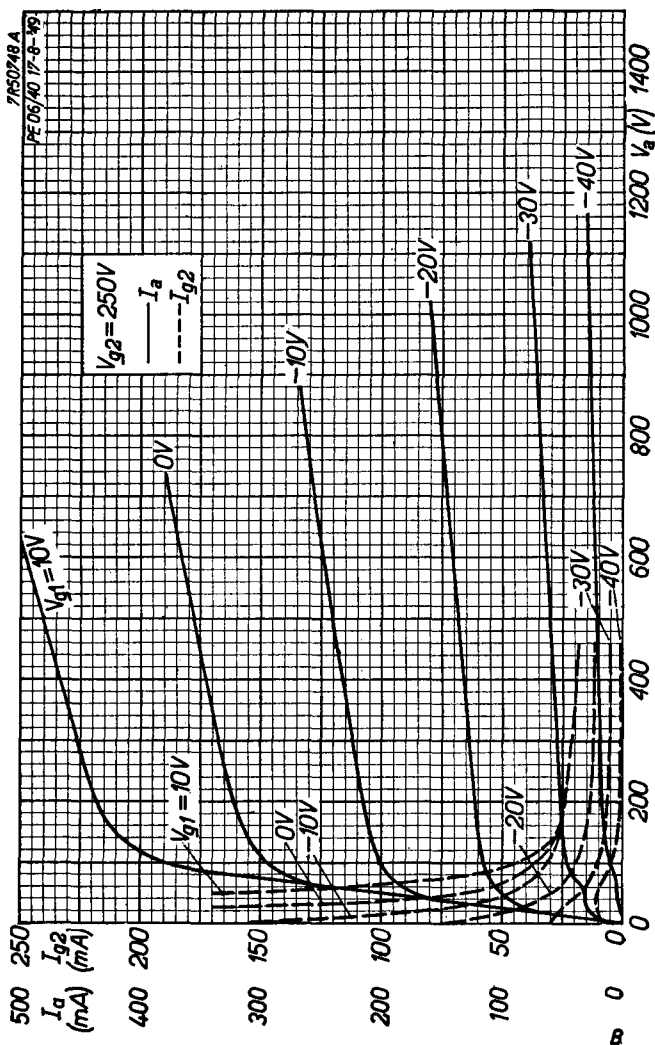
Caractéristiques d'utilisation comme amplificatrice et modulatrice B.F. classe B, deux tubes

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

V_a	=	600	V
V_{g1}	=	-45	V
V_{g2}	=	300	V
V_{g3}	=	0	V
R_{aa}	=	6	k Ω
V_{g1g1p}	=	0	90 V
I_a	=	2x34	2x115 mA
I_{g1}	=	0	0 mA
I_{g2}	=	2x3	2x18 mA
W_{ig1}	=	0	0 W
W_{g2}	=	2x0,9	2x5,4 W
W_{ia}	=	2x20,4	2x70 W
W_a	=	2x20,4	2x20 W
W_o	=	0	100 W
d_{tot}	=	-	4 %
η	=	-	71 %

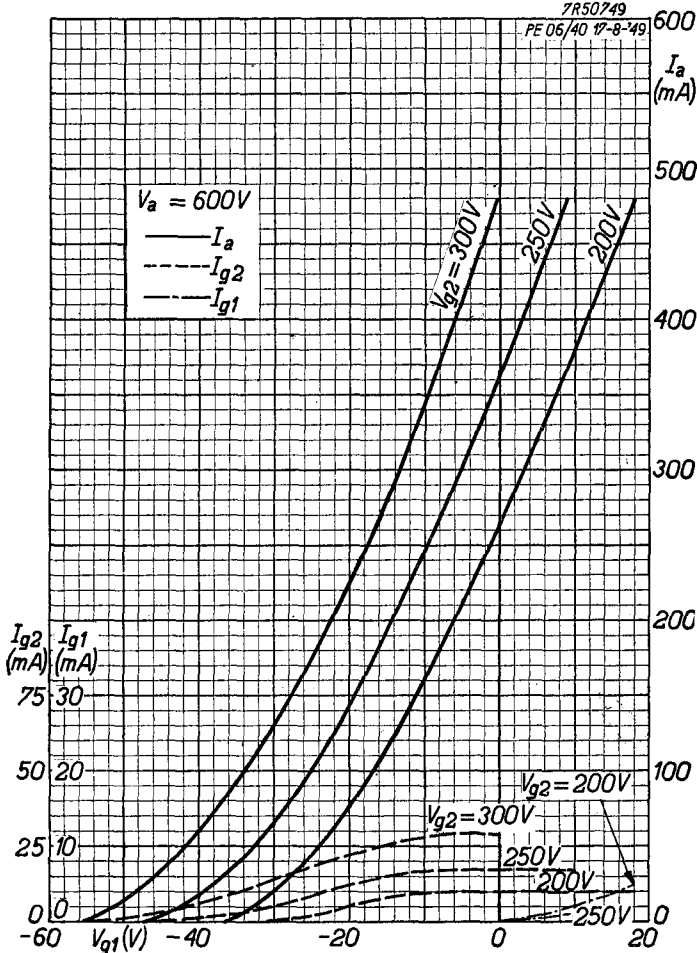


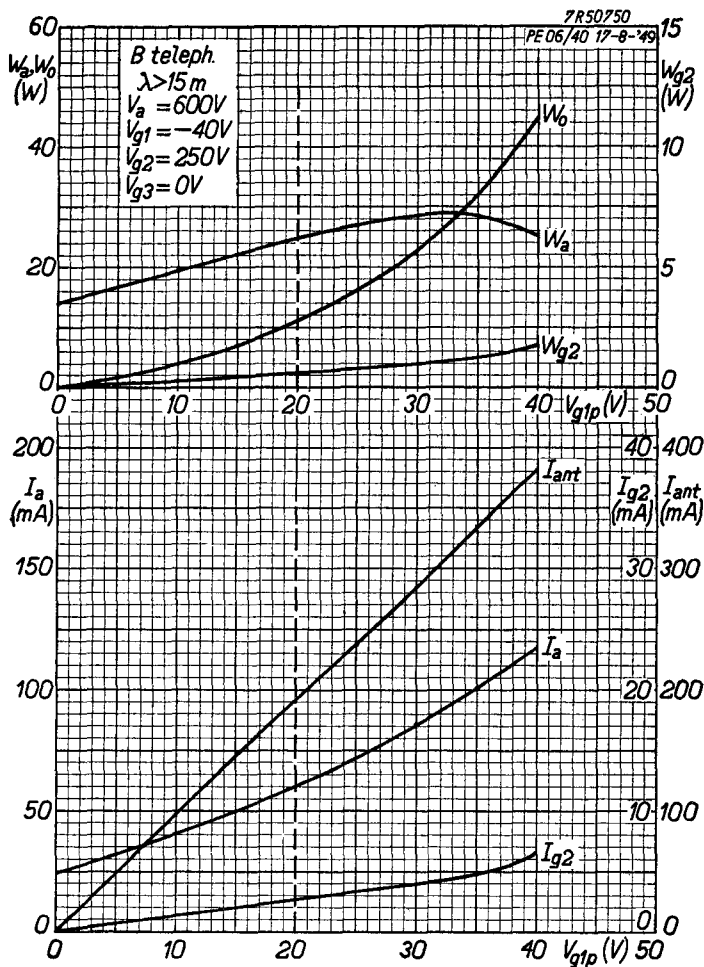
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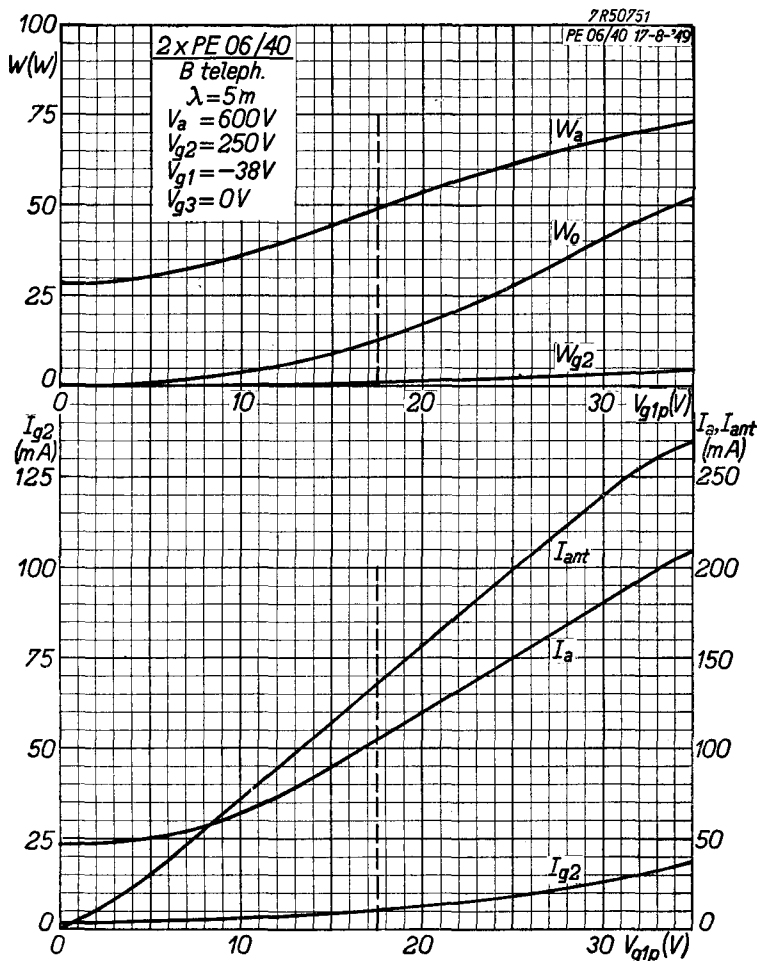


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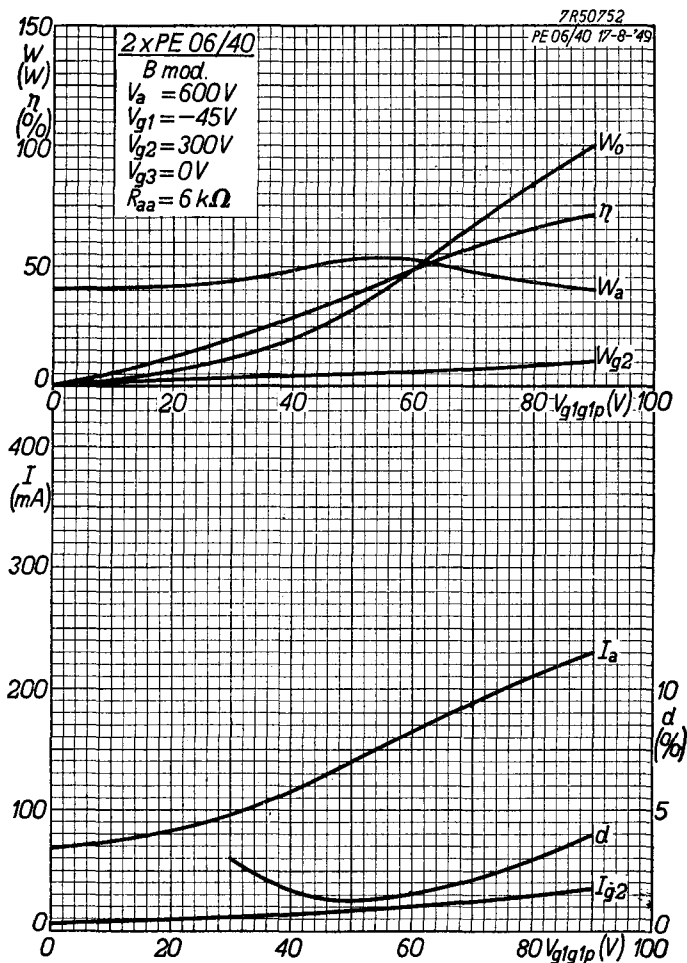


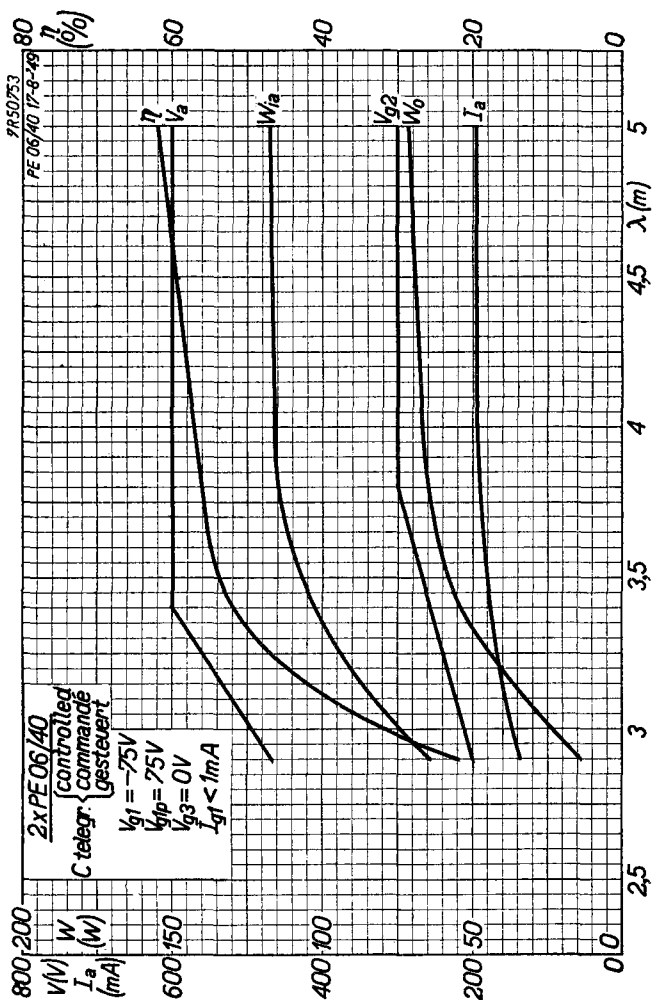




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5	5	1949.08.08
6	6	1949.08.08
7	A	1954.07.07
8	B	1954.07.07
9	C	1949.09.09
10	D	1949.09.09
11	E	1949.09.09
12	F	1949.09.09
13	G	1949.09.09
14	FP	2000.05.05