

PENTODE for use as H.F. and I.F. amplifier in battery receivers

PENTHODE pour utilisation en amplificatrice H.F. et M.F. dans des appareils-batterie

PENTODE zur Verwendung als H.F.- und Z.F. Verstärker in Batteriegeräten

Heating: direct by battery current, rectified A.C. or D.C.; series or parallel supply

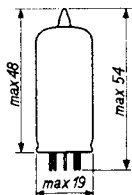
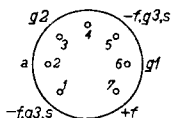
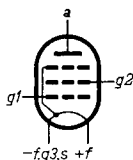
Chauffage: direct par courant batterie, C.A. redressé ou C.C.;

Heizung: alimentation en série ou en parallèle
 direkt durch Batteriestrom, gleichgerichteten Wechselstrom oder Gleichstrom;
 Serien- oder Parallelspeisung

Parallel supply: Vf = 1,4 V
 Alimentation en parallèle: If = 0,05 A
 Parallelspeisung:

Series supply: Vf = 1,35 V
 Alimentation en série:
 Serienspeisung:

Dimensions in mm
 Dimensions en mm
 Abmessungen in mm



Base, culot, Sockel: Miniature

Capacitances
 Capacités
 Kapazitäten

Cg1 < 0,01 pF¹⁾
 Ca = 7,5 pF
 Cg1 = 3,6 pF

¹⁾ Measured with external screening
 Mesuré avec blindage extérieur
 Gemessen mit äußerer Abschirmung

PENTODE for use as R.F. and I.F. amplifier in battery receivers

PENTHODE pour utilisation en amplificatrice H.F. et M.F. dans des appareils-batterie

PENTODE zur Verwendung als HF- und ZF-Verstärker in Batteriegeräten

Heating : direct by D.C.
series or parallel supply

Chauffage: direct par C.C.
alimentation en série ou en parallèle

Heizung : direkt durch Gleichstrom
Serien-oder Parallelspeisung

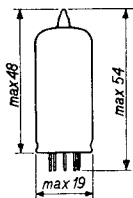
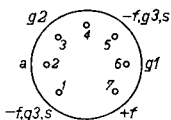
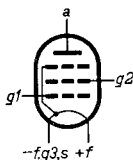
Parallel supply $V_f = 1,4 \text{ V}$
Alimentation en parallèle $I_f = 50 \text{ mA}$
Parallelspeisung

Series supply $V_f = 1,3 \text{ V}$
Alimentation en série
Serienspeisung

Dimensions in mm

Dimensions en mm

Abmessungen in mm



Base, culot, Sockel: Miniature

Capacitances
Capacités
Kapazitäten

$C_a = 7,5 \text{ pF}$
 $C_{g1} = 3,6 \text{ pF}$
 $C_{ag1} < 0,01 \text{ pF}^1)$

¹⁾ Measured with external screening
Mesuré avec blindage extérieur
Gemessen mit äußerer Abschirmung

Operating characteristics for use as H.F. or I.F. amplifier

Caractéristiques d'utilisation en amplificateur H.F. ou M.F.

Betriebsdaten als H.F.- oder Z.F. Verstärker

V_a	=	45		67,5		V
V_{g2}	=	45		67,5		V
V_{g1}	=	0	-10	0	-16	V
I_a	=	1,7	-	3,4	-	mA
I_{g2}	=	0,7	-	1,5	-	mA
S	=	700	10	875	10	$\mu A/V$
R_i	=	0,35	>10	0,25	>10	M Ω
μ_{g2g1}	=	11	-	11	-	
R_{eq}	=	-	-	20	-	k Ω

V_a	=	90		90		V
V_{g2}	=	45		67,5		V
V_{g1}	=	0	-10	0	-16	V
I_a	=	1,8	-	3,5	-	mA
I_{g2}	=	0,65	-	1,4	-	mA
S	=	750	10	900	10	$\mu A/V$
R_i	=	0,8	>10	0,5	>10	M Ω
μ_{g2g1}	=	11	-	11	-	
R_{eq}	=	-	-	19	-	k Ω

Limiting values

Caractéristiques limites

Grenzdaten

V_a	= max.	90 V
W_a	= max.	0,35 W
V_{g2}	= max.	67,5 V
W_{g2}	= max.	0,11 W
I_k	= max.	5,5 mA
$V_{g1}(I_{g1}=+0,3\mu A)$	= max.	-0,2 V
R_{g1}	= max.	3 M Ω

Operating characteristics for use as R.F. or I.F. amplifier

Caractéristiques d'utilisation en amplificatrice H.F. ou M.F.

Betriebsdaten als HF- oder ZF-Verstärker

V_a	=	45		67,5		90	V
V_{g2}	=	45		45		45	V
V_{g1}	=	0	-10	0	-10	0	-10 V
I_a	=	1,7	-	1,75	-	1,8	mA
I_{g2}	=	0,7	-	0,68	-	0,65	mA
S	=	700	10	725	10	750	10 $\mu\text{A}/\text{V}$
R_i	=	0,35	>10	0,6	>10	0,8	>10 $\text{M}\Omega$
μ_{g2g1}	=	11	-	11	-	11	-
R_{eq}	=	18	-	17	-	16	k Ω

Limiting values

Caractéristiques limites

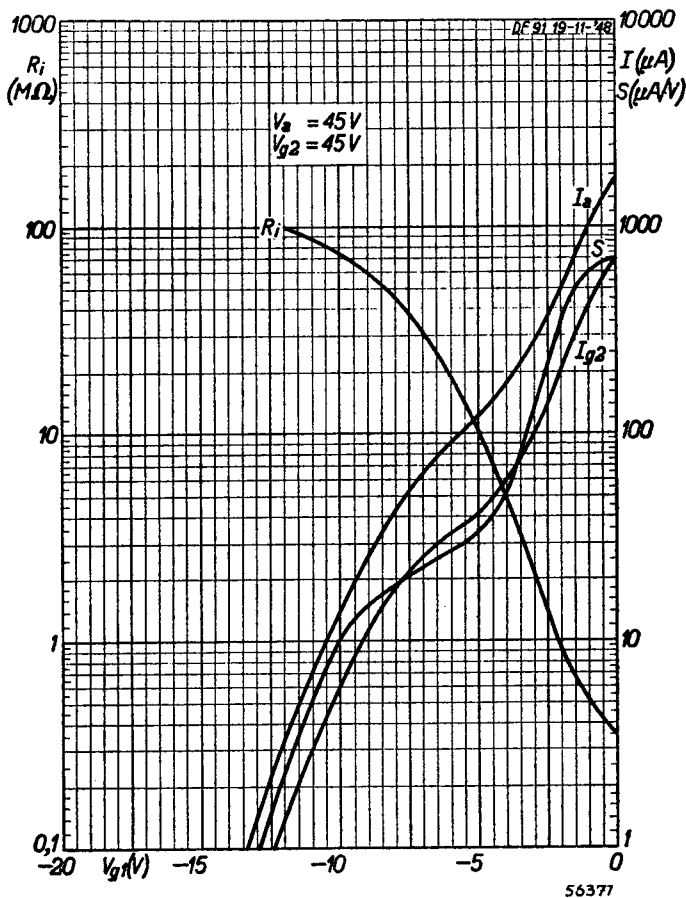
Grenzdaten

V_b	= max.	120 V
V_b	= max.	140 V ¹⁾
V_a	= max.	90 V
W_a	= max.	0,5 W
V_{g2}	= max.	67,5 V
W_{g2}	= max.	0,2 W
I_k	= max.	5,5 mA
$V_{g1}(I_{g1}=+0,3\mu\text{A})$	= max.	-0,2 V
R_{g1}	= max.	3 $\text{M}\Omega$

¹⁾ Absolute value
Valeur absolue
Absolutwert

"Miniwatt"

DF 91

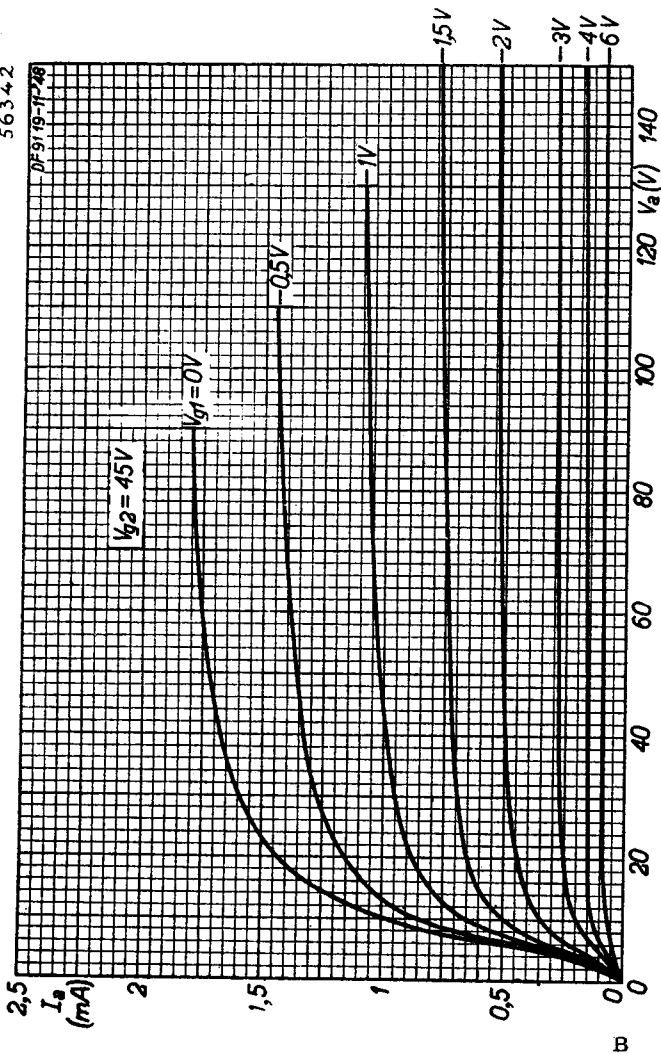


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"Miniwatt"

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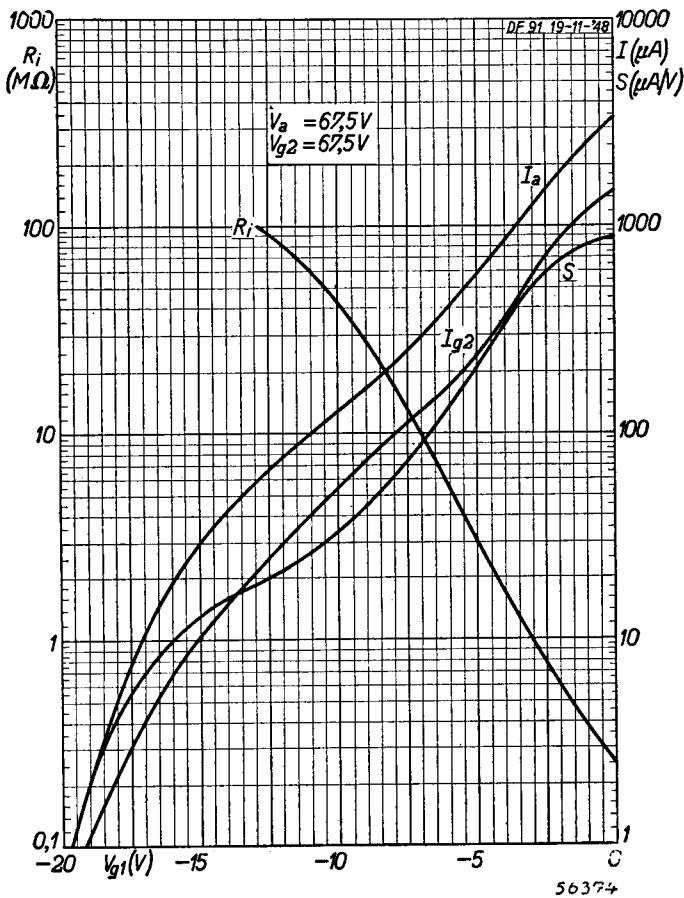
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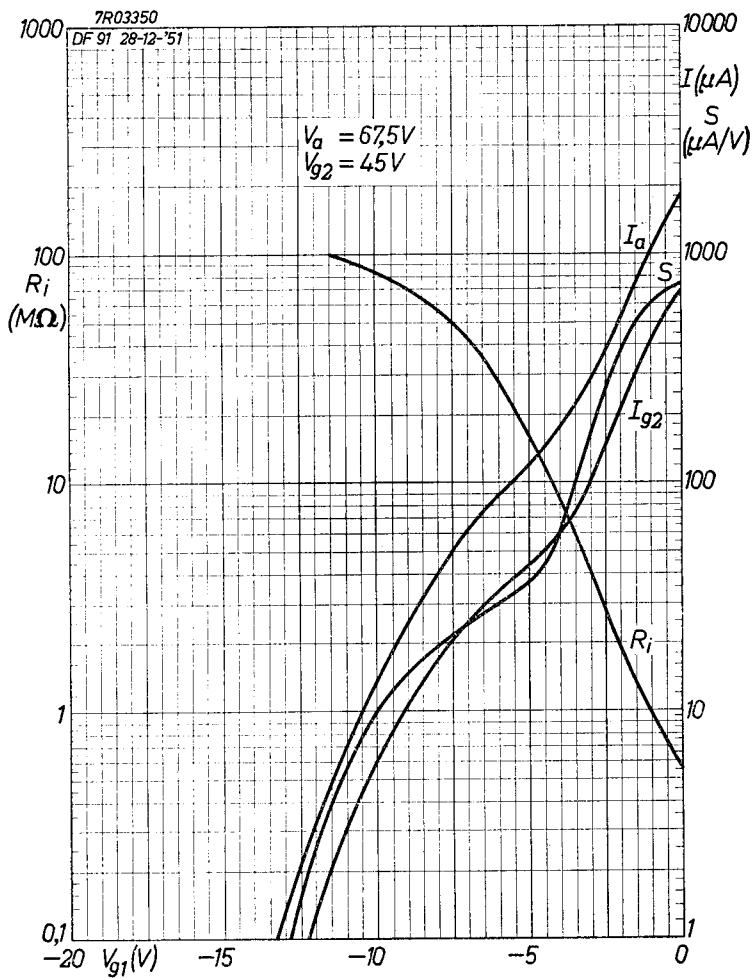


B

"Miniwatt"

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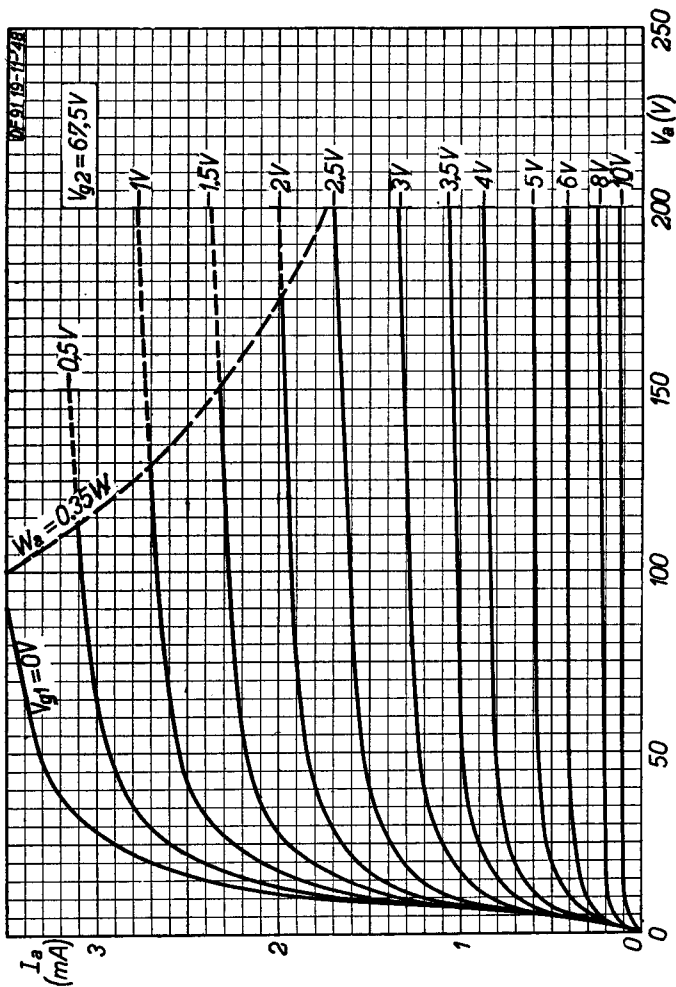




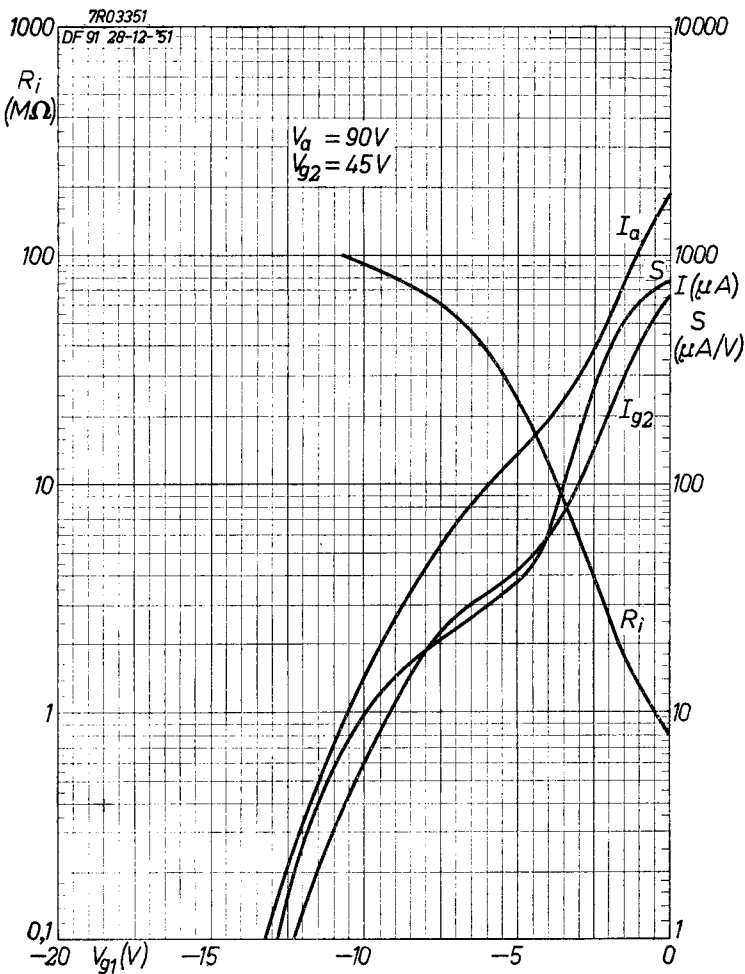
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"Miniwatt"

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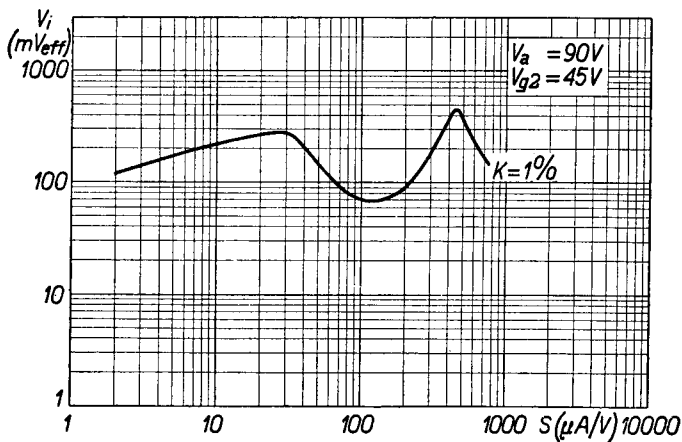
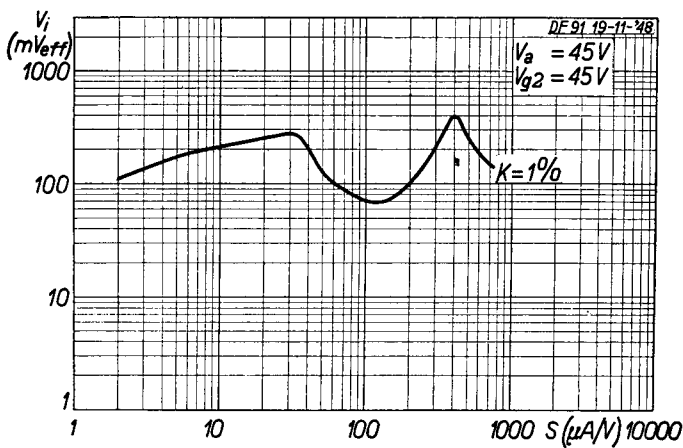


D

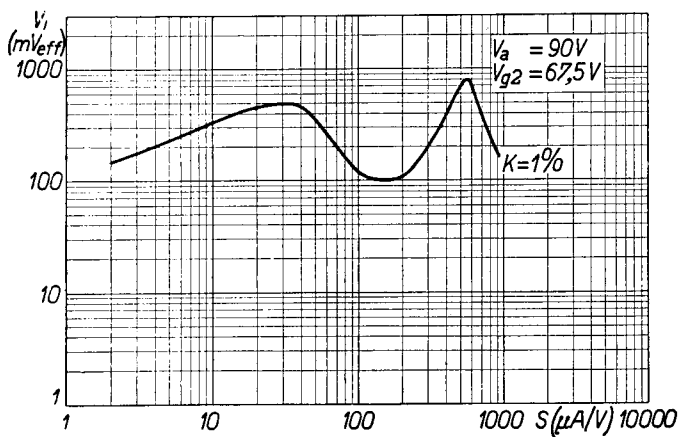
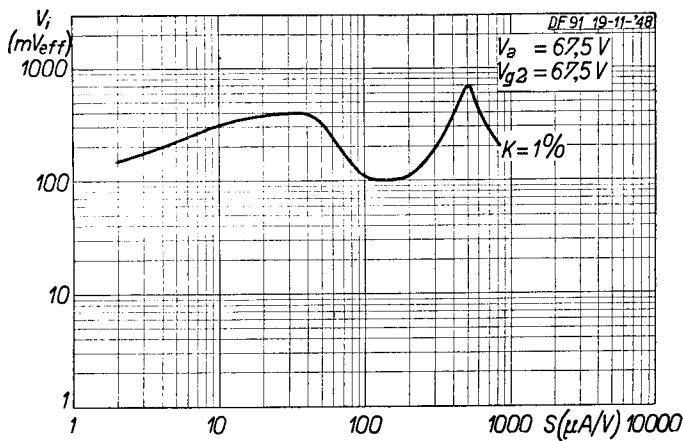
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"Miniwatt"

DF 91



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DF 91*"Miniwatt"*

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PHILIPS



*Electronic
Tube*

HANDBOOK

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13	FP	2000.01.21