

OUTPUT PENTODE  
PENTHODE DE SORTIE  
ENDPENTODE

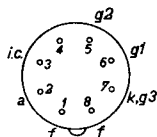
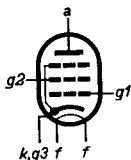
Heating : indirect; series supply  $V_f = 45 \text{ V}$   
 Chauffage: indirect; alimentation- série  $I_f = 100 \text{ mA}$   
 Heizung : indirekt; Serienspeisung

Base, culot, Sockel: RIMLOCK

Overall length: 76 mm  
See pages 203 and 252

Hauteur totale: 76 mm  
Voir pages 203 et 252

Gesamthöhe : 76 mm  
Siehe S. 203 und 252



Capacitances  
Capacités  
Kapazitäten

$C_a = 8,3 \text{ pF}$   
 $C_{g1} = 11 \text{ pF}$   
 $C_{ag1} < 1 \text{ pF}$   
 $C_{g1f} < 0,1 \text{ pF}$

Operating characteristics class A  
 Caractéristiques d'utilisation classe A  
 Betriebsdaten Klasse A

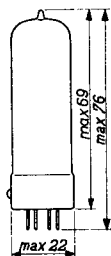
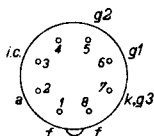
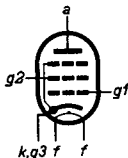
$V_a$	=	100	110	170 V
$V_{g2}$	=	100	110	170 V
$V_{g1}$	=	-5,7	-6,4	-10,4 V
$I_a$	=	29	32	53 mA
$I_{g2}$	=	5,5	6,0	10 mA
S	=	8,0	8,5	9,5 mA/V
$R_1$	=	18	18	20 k $\Omega$
$R_{a\omega}$	=	3	3	3 k $\Omega$
$\mu_{g2g1}$	=	10	10	10
$W_o(dt_{tot}=10\%)$	=	1,35	1,7	4,25 W
$V_i(dt_{tot}=10\%)$	=	3,75	4,2	6,0 $V_{eff}$
$W_o(I_{g1}=+0,3\mu A)$	=	1,35	1,7	4,9 W
$V_i(W_o = 50 \text{ mW})$	=	0,55	0,55	0,5 $V_{eff}$

OUTPUT PENTODE  
 PENTHODE DE SORTIE  
 ENDPENTODE

Heating : indirect; series supply  
 Chauffage: indirect; alimentation série  
 Heizung : indirekt; Serienspeisung

$V_f = 45 \text{ V}$   
 $I_f = 100 \text{ mA}$

Dimensions in mm  
 Dimensions en mm  
 Abmessungen in mm



Base, culot, Sockel: RIMLOCK

Capacitances	$C_a$	=	6,3 pF
Capacités	$C_{g_1}$	=	11 pF
Kapazitäten	$C_{a, g_1}$	<	1 pF
	$C_{g_1, f}$	<	0,1 pF

Typical characteristics class A  
 Caractéristiques d'utilisation classe A  
 Betriebsdaten Klasse A

$V_a$	=	100	170 V
$V_{g_2}$	=	100	170 V
$V_{g_1}$	=	-5,7	-10,4 V
$I_a$	=	29	53 mA
$I_{g_2}$	=	5,5,	10 mA
S	=	8,0	9,5 mA/V
$R_1$	=	18	20 k $\Omega$
$R_a$	=	3	3 k $\Omega$
$\mu_{g_2, g_1}$	=	10	10
$W_0$ (dtot = 10%)	=	1,25	4,0 W
$V_1$ (dtot = 10%)	=	3,8	6,0 $V_{eff}$
$V_1$ ( $W_0 = 50 \text{ mW}$ )	=	0,55	0,5 $V_{eff}$

Operating characteristics class AB  
 Caractéristiques d'utilisation classe AB  
 Betriebsdaten Klasse AB

$V_a$	=	100		170	V	
$V_{g2}$	=	100		170	V	
$R_k$	=	100		100	$\Omega$	
$R_{aa\omega}$	=	4,0		4,0	k $\Omega$	
$V_i$	=	0	4,6	0	9,3	$V_{eff}$
$I_a$	=	2x24	2x27	2x44	2x49	mA
$I_{g2}$	=	2x4,6	2x6,8	2x8,8	2x16,5	mA
$W_o$	=	0	2,2	0	9	W
$dtot$	=	-	3,5	-	4,0	%

Limiting values  
 Caractéristiques limites  
 Grenzdaten

$V_{a0}$	= max.	550	V
$V_a$	= max.	250	V
$W_a$	= max.	9	W
$V_{g2o}$	= max.	550	V
$V_{g2}$	= max.	250	V
$W_{g2}(V_i = 0)$	= max.	1,75	W
$W_{g2}(W_o = \text{max.})$	= max.	4,0	W
$I_k$	= max.	75	mA
$V_{g1}(I_{g1} = +0,3\mu A)$	= max.	-1,3	V
$R_{g1}(R_k = 165\ \Omega)$	= max.	1	M $\Omega$
$R_{xf}$	= max.	20	k $\Omega$
$V_{kf}$	= max.	150	V

Operating characteristics class AB  
 Caractéristiques d'utilisation classe AB  
 Betriebsdaten Klasse AB

$V_a$	=	100		170	V
$V_{g2}$	=	100		170	V
$R_k$	=	100		100	$\Omega$
$R_{aa}$	=	4,0		4,0	k $\Omega$
$V_i$	=	0 4,6		0 9,3	
					V <sub>eff</sub>
$I_a$	=	2x25	2x27	2x46	2x49 mA
$I_{g2}$	=	2x5,0	2x6,8	2x9,0	2x16,5 mA
$W_o$	=	0	2,2	0	9 W
$d_{tot}$	=	-	4,0	-	5,0 %

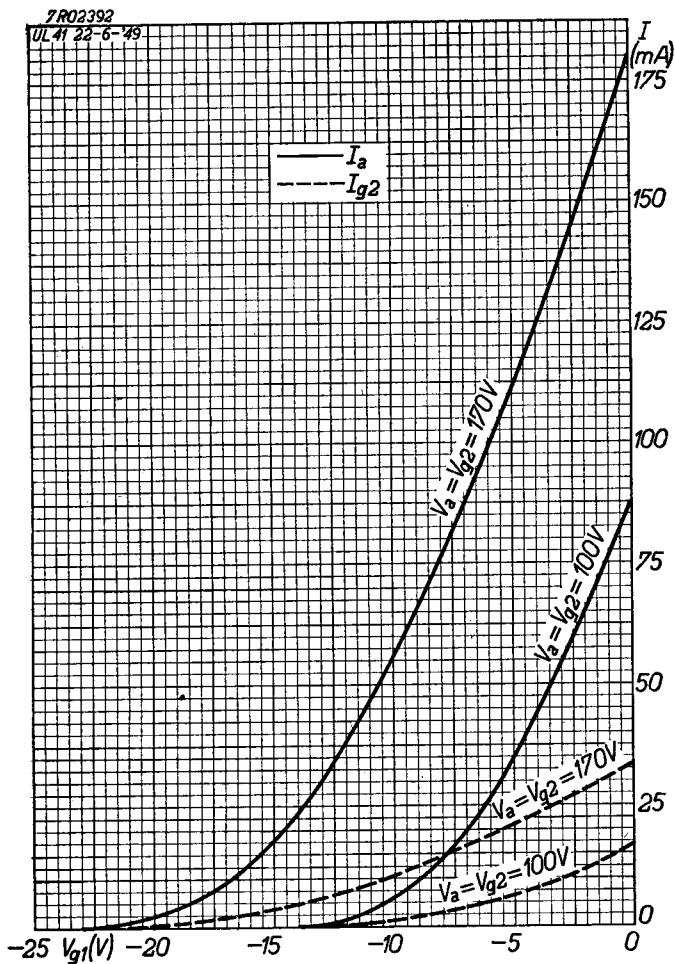
Limiting values  
 Caractéristiques limites  
 Grenzdaten

$V_{a0}$	= max.	550 V
$V_a$	= max.	250 V
$W_a$	= max.	9 W
$V_{g20}$	= max.	550 V
$V_{g2}$	= max.	250 V
$W_{g2}$	= max.	2,5 W
$I_k$	= max.	75 mA
$V_{g1}$ ( $I_{g1} = +0,3 \mu A$ )	= max.	-1,3 V <sup>1)</sup>
$R_{g1}$	= max.	1 M $\Omega$
$R_{kf}$	= max.	20 k $\Omega$
$V_{kf}$	= max.	150 V

<sup>1)</sup>With automatic bias  
 Avec polarisation automatique  
 Mit automatischer Gittervorspannung

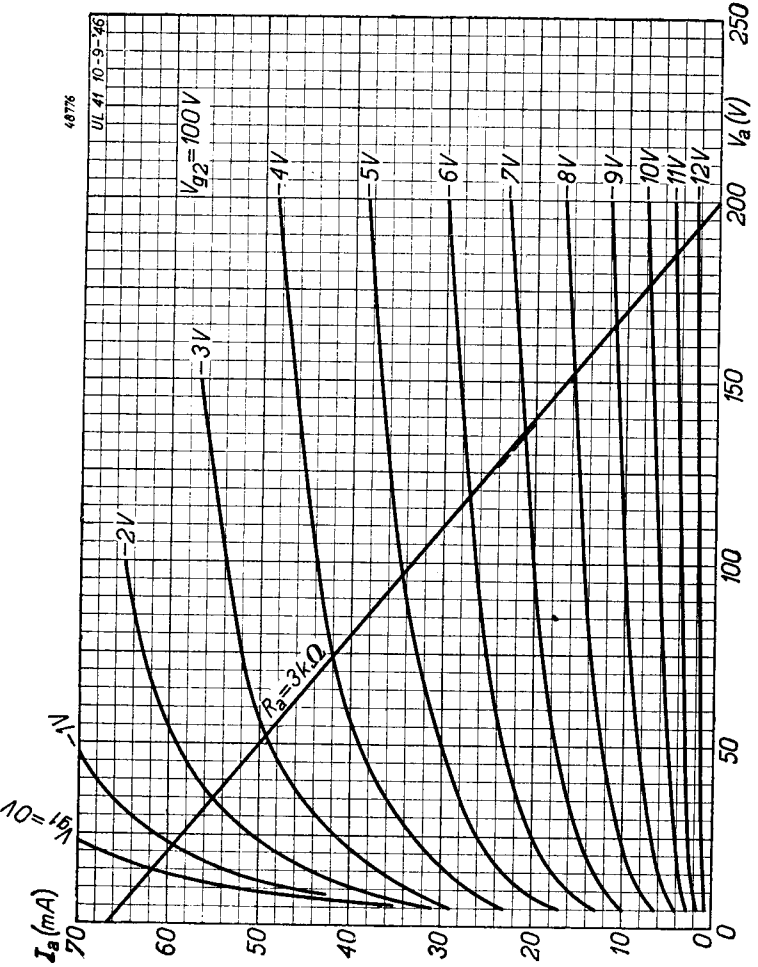
# "Miniwatt"

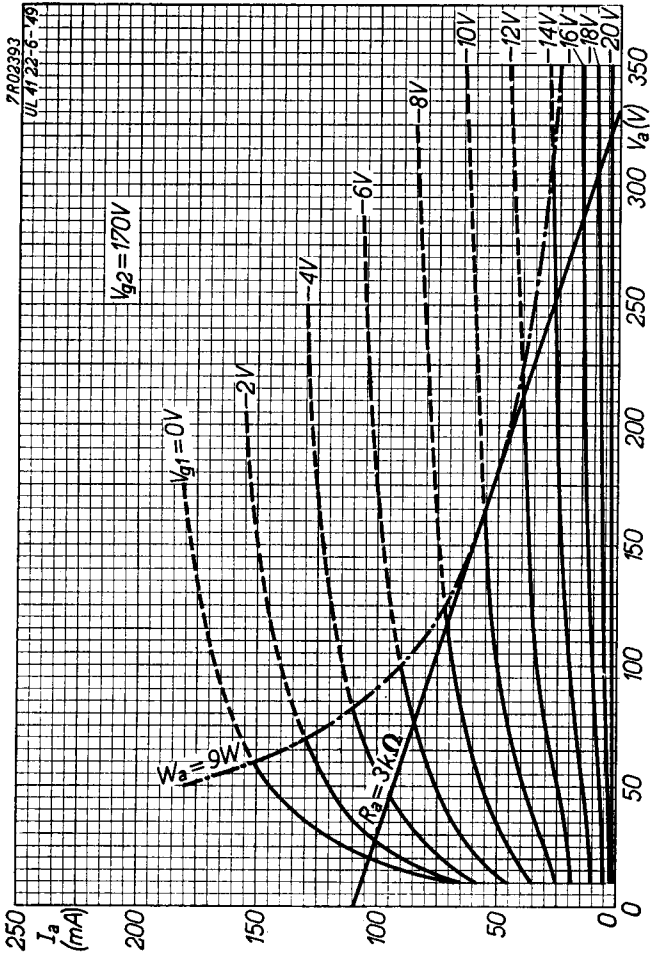
UL 41



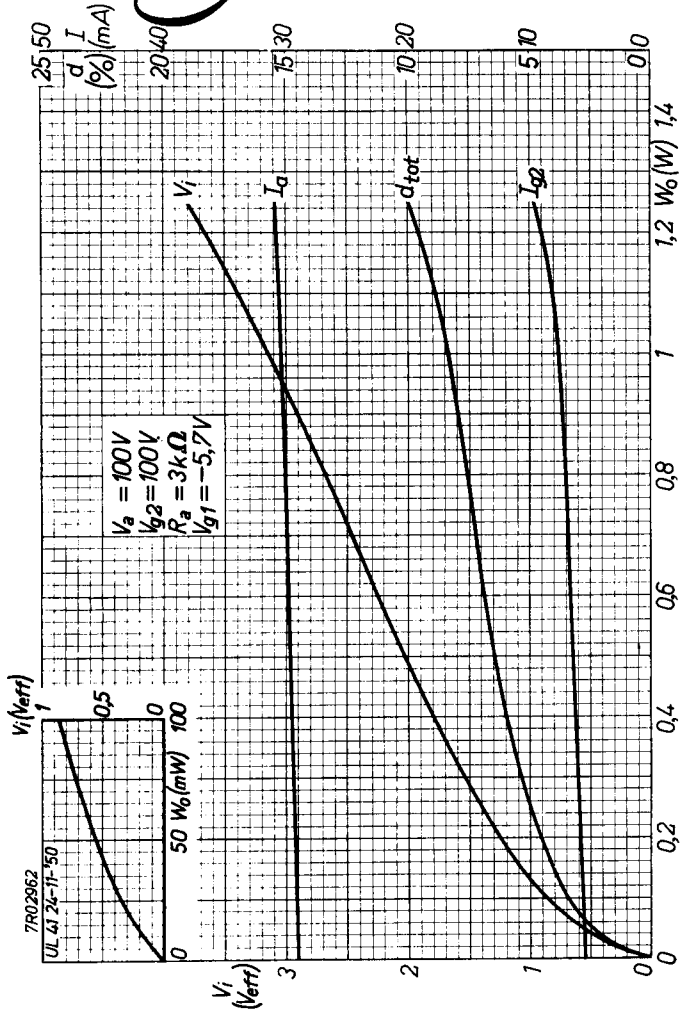
UL 41

"Miniwatt"





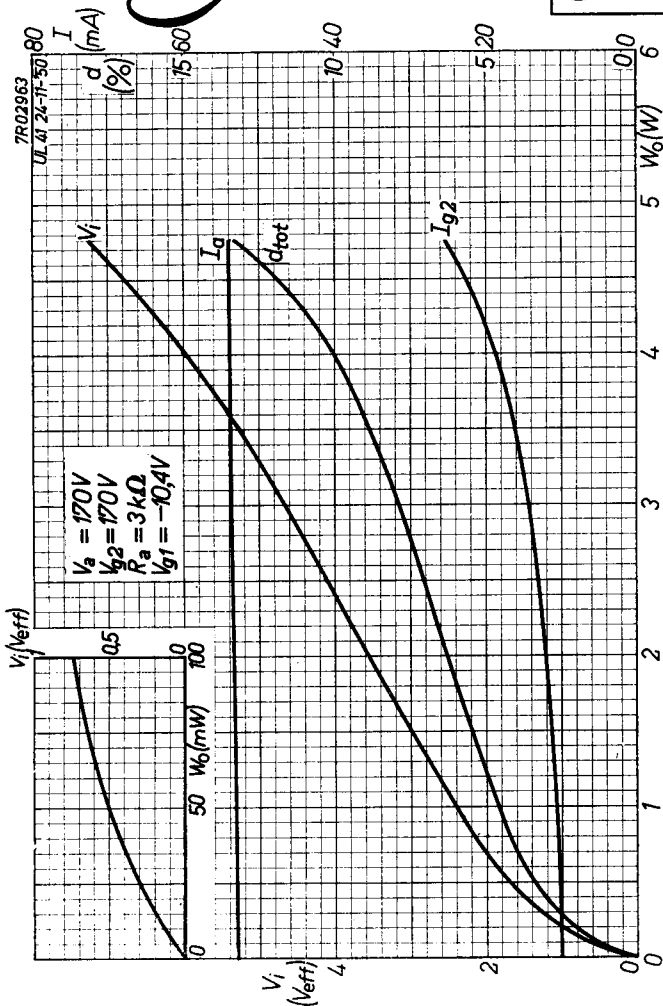
# "Miniwatt"





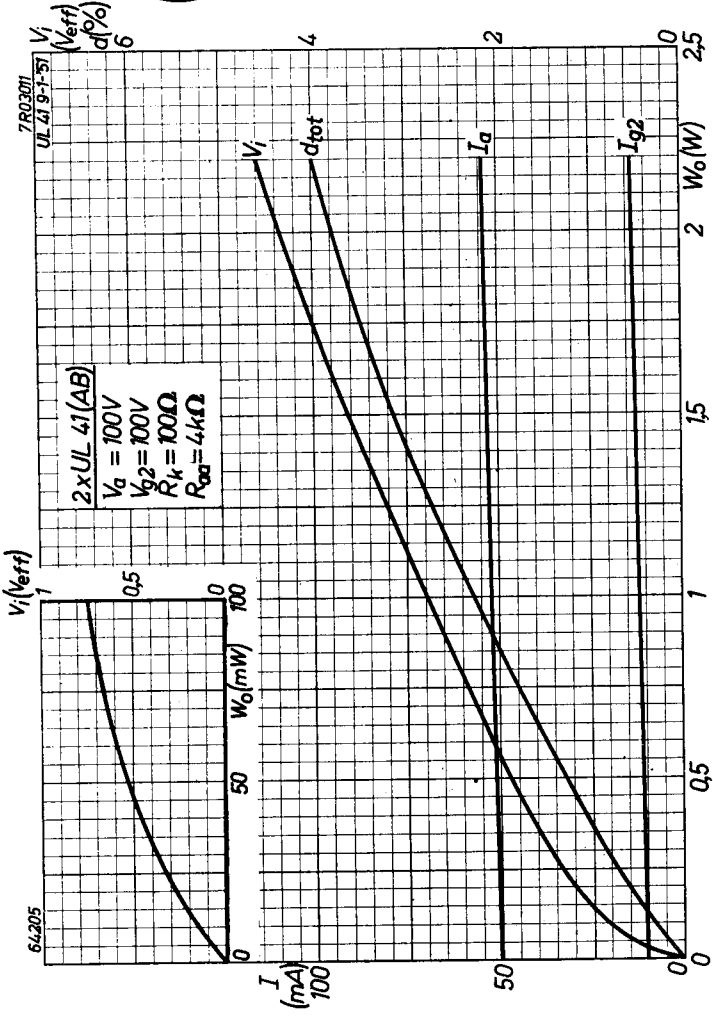
# "Miniwatt"

UL 41



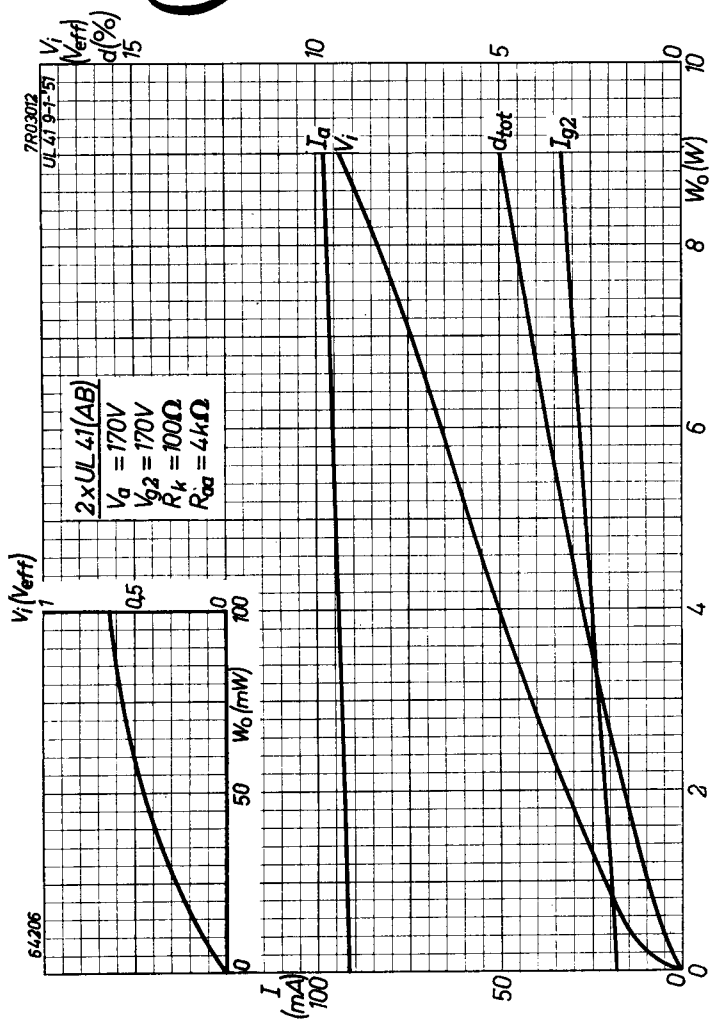
**UL 41**

# "Miniwatt"



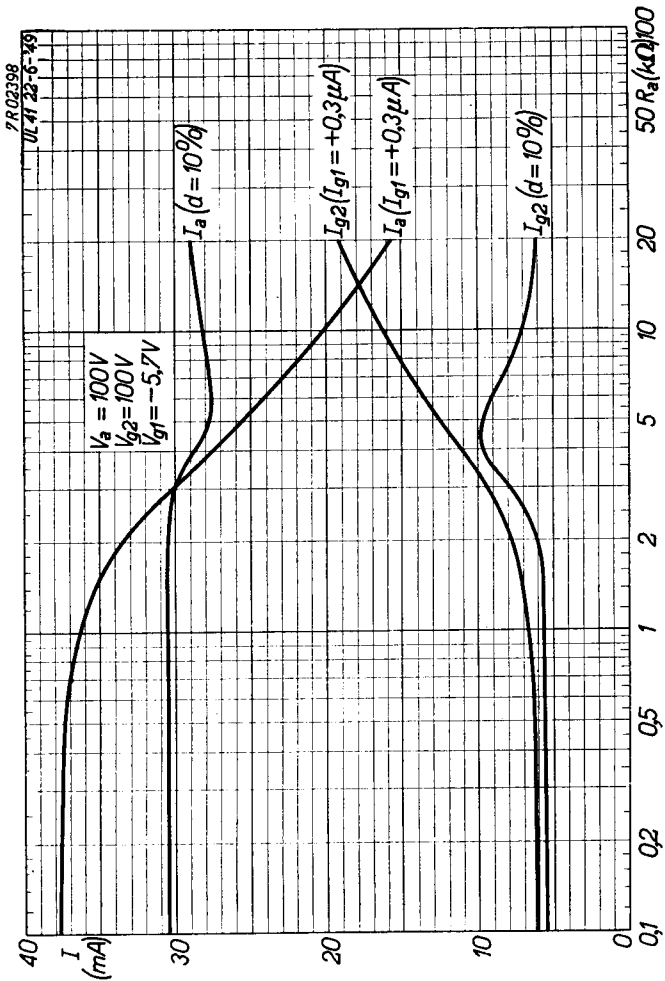
# "Miniwatt"

UL 41



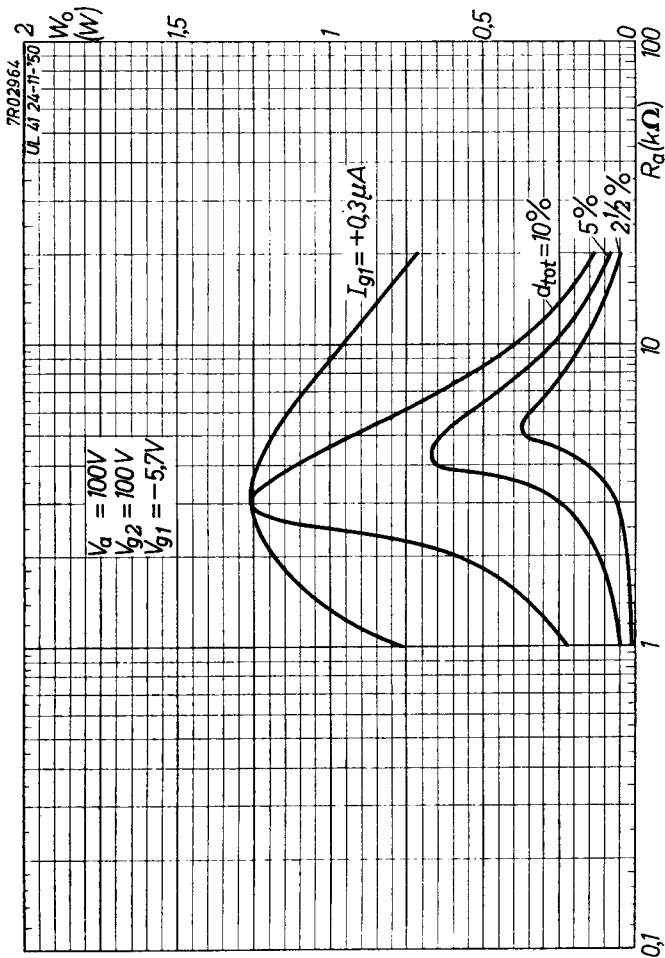
UL 41

"Miniwatt"



# "Miniwatt"

UL 41

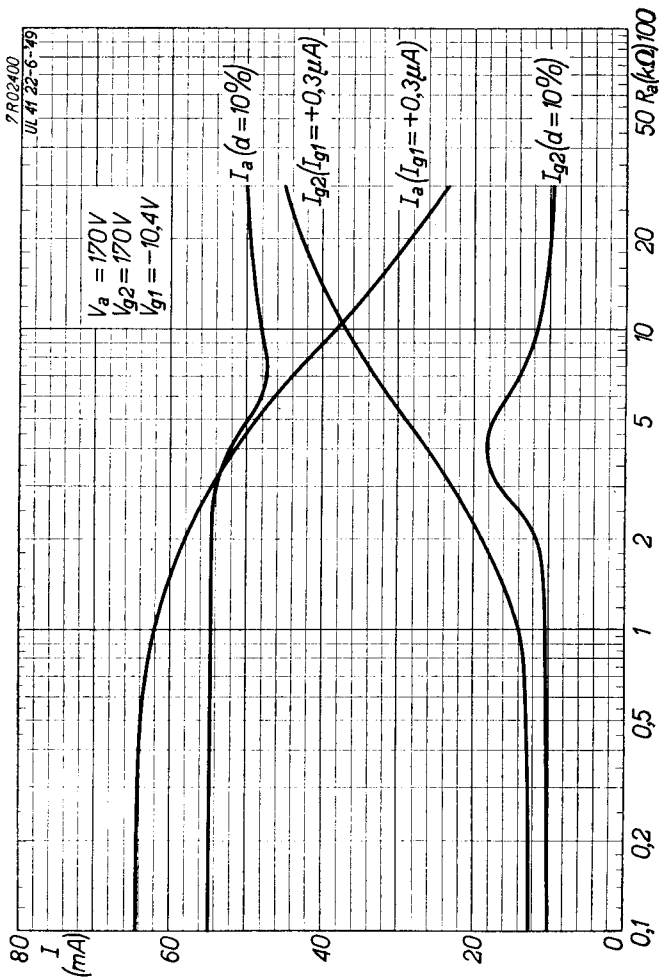


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UL 41

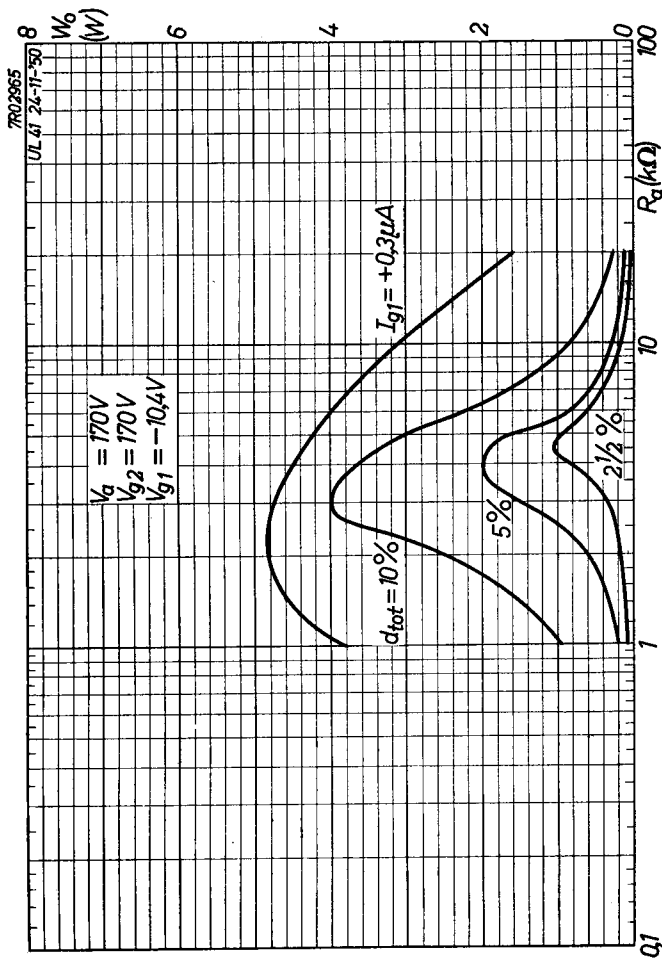
"Miniwatt"



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# "Miniwatt"

UL 41



12.12.1950

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**PHILIPS**

*Electronic  
Tube*

**HANDBOOK**

<b>page</b>	<b>UL41 sheet</b>	<b>date</b>
1	1	1953.12.12
2	1	1955.05.05
3	2	1953.12.12
4	2	1955.05.05
5	A	1949.07.07
6	B	1949.07.07
7	C	1950.12.12
8	D	1950.12.12
9	E	1950.12.12
10	F	1950.12.12
11	G	1951.02.02
12	H	1951.02.02
13	I	1950.12.12
14	J	1950.12.12
15	K	1950.12.12
16	FP	1999.10.12