TELEFUNKEN

U_f	12,6	V
I_f	**100**	mA

Meßwerte · Measuring values

U_a	**170**	V
U_{g3}	**0**	V
U_{g2}	**100**	V
U_{g1}	**1,2**	V
I_a	**12**	mA
I_{g2}	**4,4**	mA
S	**4,4**	mA/V
R_i	0,4	MΩ
μ_{g2g1}	21	

Betriebswerte · Typical operation

HF- oder ZF-Verstärker · RF- or IF-amplifier

Grundgittervorspannung mit R_k · Base grid 1 voltage with R_k

$U_a = U_b$	**100**		**100**		V
U_{g3}	**0**		**0**		V
R_{g2}	**0**		**15**		kΩ
R_k	**160**		**130**		Ω
U_{g1}	−1,9	−10	−1,05	−10	V
I_a	8,6	—	6	—	mA
I_{g2}	3,1	—	2,1	—	mA
S	3,3	0,16	3,2	0,15	mA/V
R_i	0,3	—	0,475	—	MΩ
r_{aeq}	ca. 4,7	—	ca. 3,5	—	kΩ

$U_a = U_b$	**170**		**200**		V
U_{g3}	**0**		**0**		V
R_{g2}	**15**		**24**		kΩ
R_k	**130**		**130**		Ω
U_{g1}	−1,95	−20	−1,95	−20	V
I_a	11	—	11,1	—	mA
I_{g2}	3,9	—	3,8	—	mA
S	3,8	0,11	3,85	0,16	mA/V
R_i	0,45	—	0,55	—	MΩ
r_{aeq}	ca. 4,5	—	ca. 4,2	—	kΩ

TELEFUNKEN

Betriebswerte · Typical operation

HF- oder ZF-Verstärker · RF- or IF-amplifier

Grundgittervorspannung nur durch R_{g1}

Base grid 1 voltage produced by voltage drop across R_{g1} only

$U_a = U_b$	**100**		**100**		V
U_{g3}	**0**		**0**		V
R_{g2}	**3,9**		**22**		kΩ
R_k	**0**		**0**		Ω
R_{g1}	10		10		MΩ
U_{g1}	0	−10	0	−10	V
I_a	12	—	6,1	—	mA
I_{g2}	4,5	—	2,3	—	mA
S	5	0,16	4	0,14	mA/V
R_i	0,2	—	0,45	—	MΩ
r_{aeq}	ca. 3	—	ca. 2,6	—	kΩ

$U_a = U_b$	**170**		**200**		V
U_{g3}	**0**		**0**		V
R_{g2}	**22**		**33**		kΩ
R_k	**0**		**0**		Ω
R_{g1}	10		10		MΩ
U_{g1}	0	−20	0	−20	V
I_a	11,8	—	11,3	—	mA
I_{g2}	4,3	—	3,9	—	mA
S	5,2	0,11	5,15	0,15	mA/V
R_i	0,4	—	0,475	—	MΩ
r_{aeq}	ca. 2,6	—	ca. 2,5	—	kΩ

[1]) Bei dieser Einstellung kann Dämpfung durch den Widerstand der Gitter-Kathoden-Strecke auftreten. Ist das unzulässig, so muß eine Einstellung mit −1,5 V Gittervorspannung gewählt werden.

At this adjustment attenuation may be caused by the resistance of the grid-cathode paths. If this is not permissible then −1.5 V grid bias must be adjusted.

Grenzwerte · Maximum ratings

U_{ao}	**550**	V
U_a	**250**	V
N_a	**2,25**	W
U_{g2o}	**550**	V
U_{g2}	**250**	V
N_{g2}	**0,45**	W
I_k	**16,5**	mA
R_{g1}	**3**	MΩ
R_{g1} [1]	**22**	MΩ
R_{g3}	**10**	kΩ
U_{g1e}	**−1,3**	V
R_{fk}	**20**	kΩ
U_{fk}	**150**	V

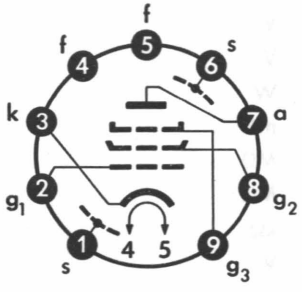
[1] U_{g1} nur durch R_{g1} erzeugt.
U_{g1} produced by voltage drop across R_{g1} only.

Kapazitäten · Capacitances

c_a		5,1	pF
c_{g1}		5,5	pF
c_{g1f}	<	0,05	pF
c_{g1a}	<	0,002	pF

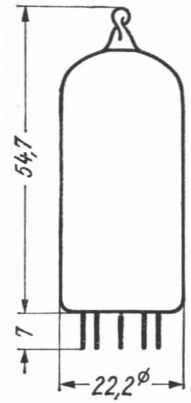
TELEFUNKEN

Sockelschaltbild
Base connection



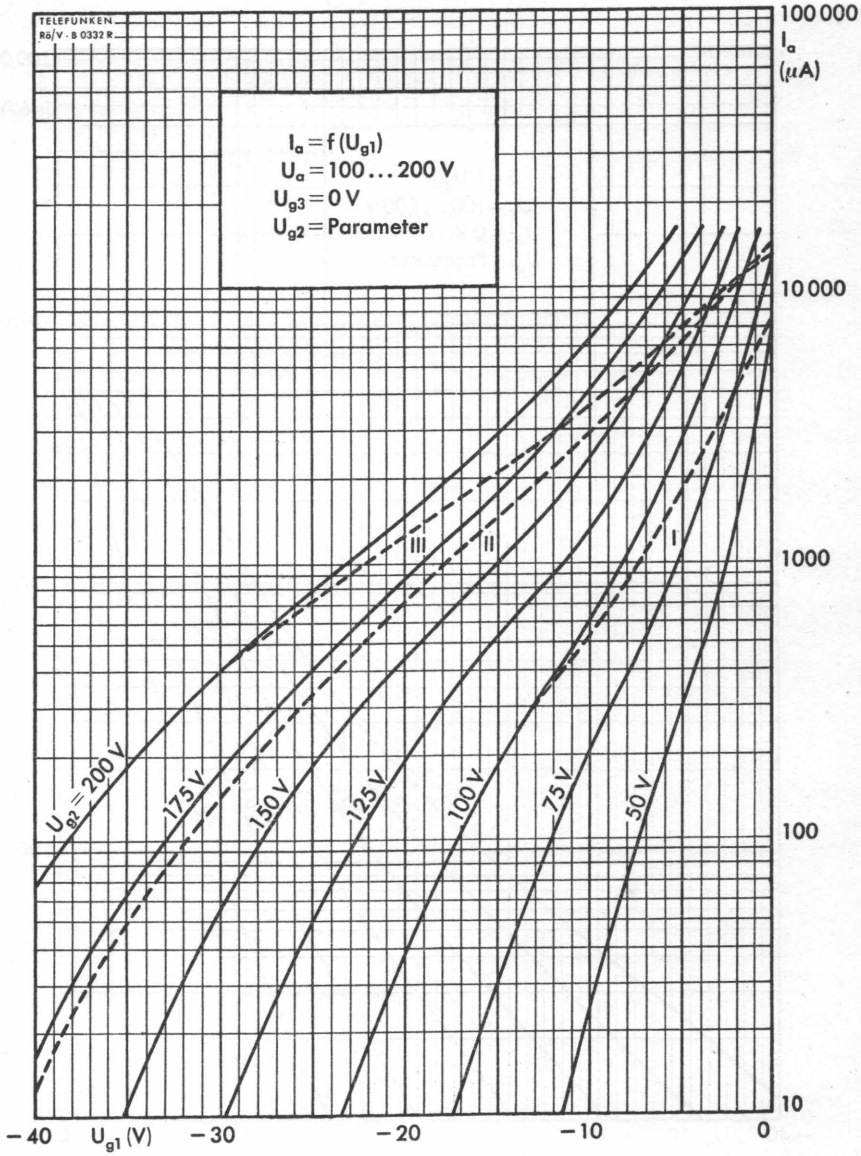
Pico 9 · Noval

max. Abmessungen
max. dimensions
DIN 41539, Nenngröße 45, Form A



Gewicht · Weight
max. 15 g

Wenn notwendig, muß gegen Herausfallen der Röhre aus der Fassung Vorsorge getroffen werden.
Special precaution must be taken to prevent the tube from becoming dislodges.



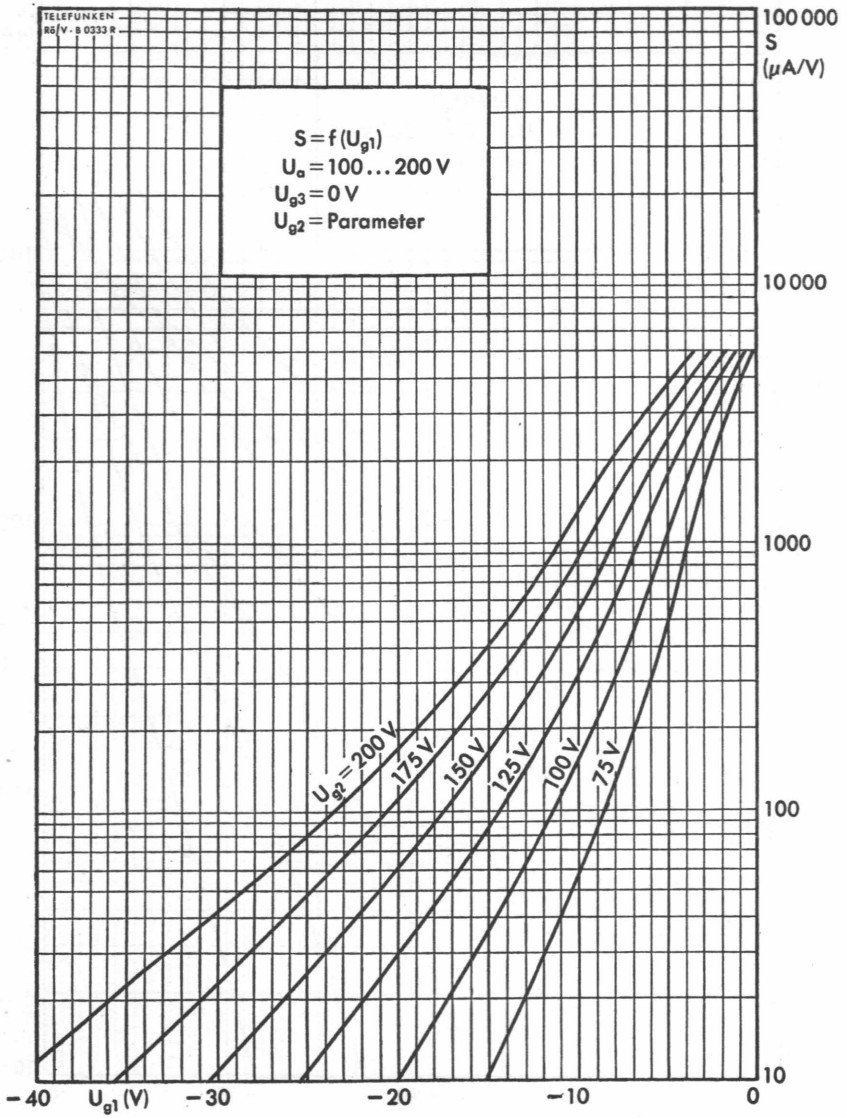
Regelkennlinien UF 89 als HF- oder ZF-Verstärker

I $U_b = 100$ V
$R_{g2} = 15$ kΩ

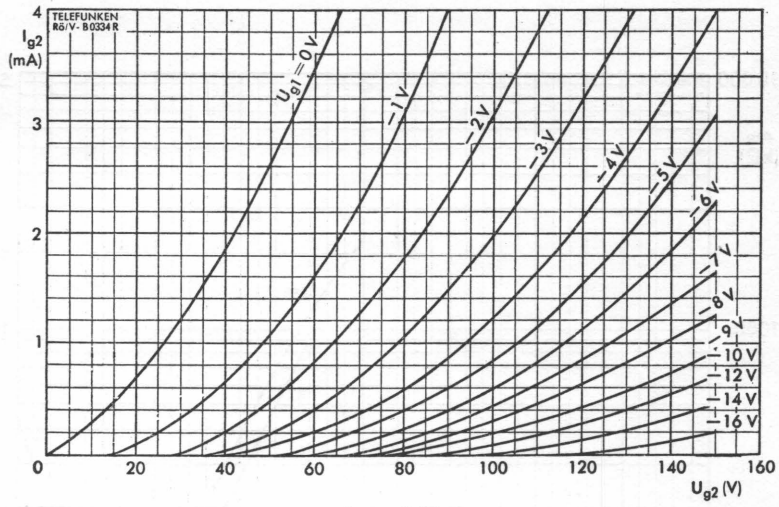
II $U_b = 170$ V
$R_{g2} = 15$ kΩ

III $U_b = 200$ V
$R_{g2} = 24$ kΩ

TELEFUNKEN



Regelkennlinien UF 89 als HF- oder ZF-Verstärker

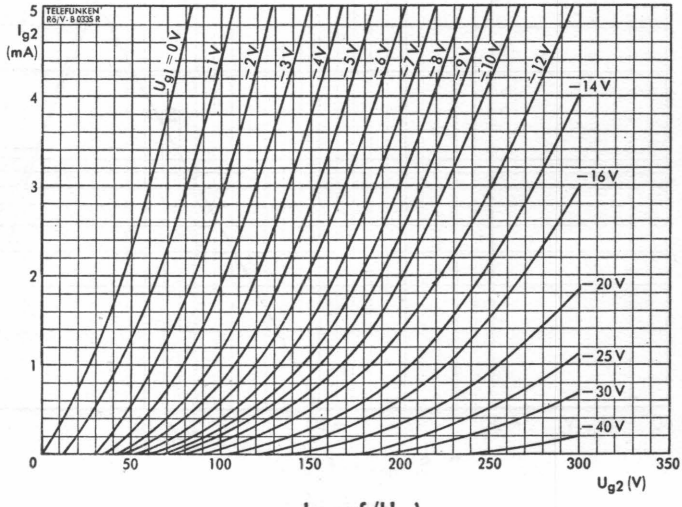


$I_{g2} = f(U_{g2})$

$U_a = 100$ V

$U_{g3} = 0$ V

U_{g1} = Parameter



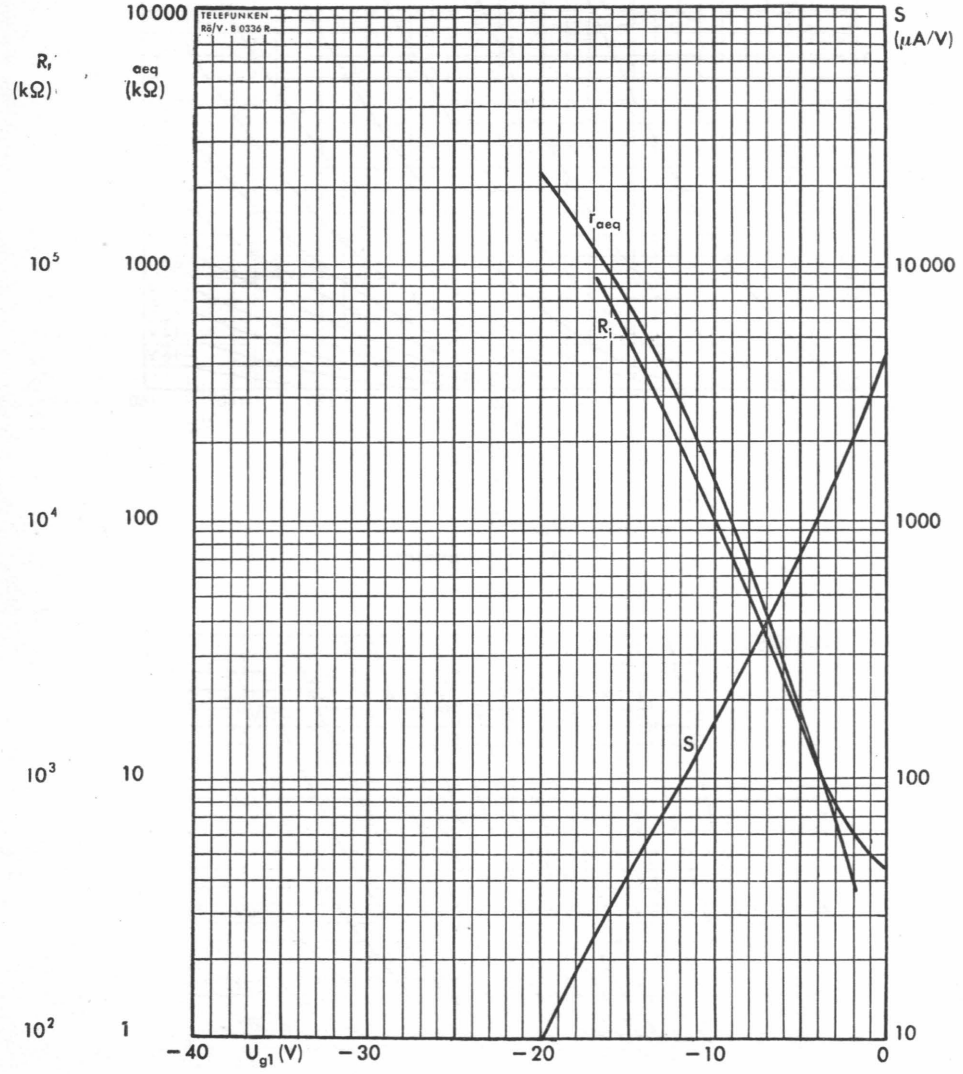
$I_{g2} = f(U_{g2})$

$U_a = 170 \ldots 200$ V

$U_{g3} = 0$ V

U_{g1} = Parameter

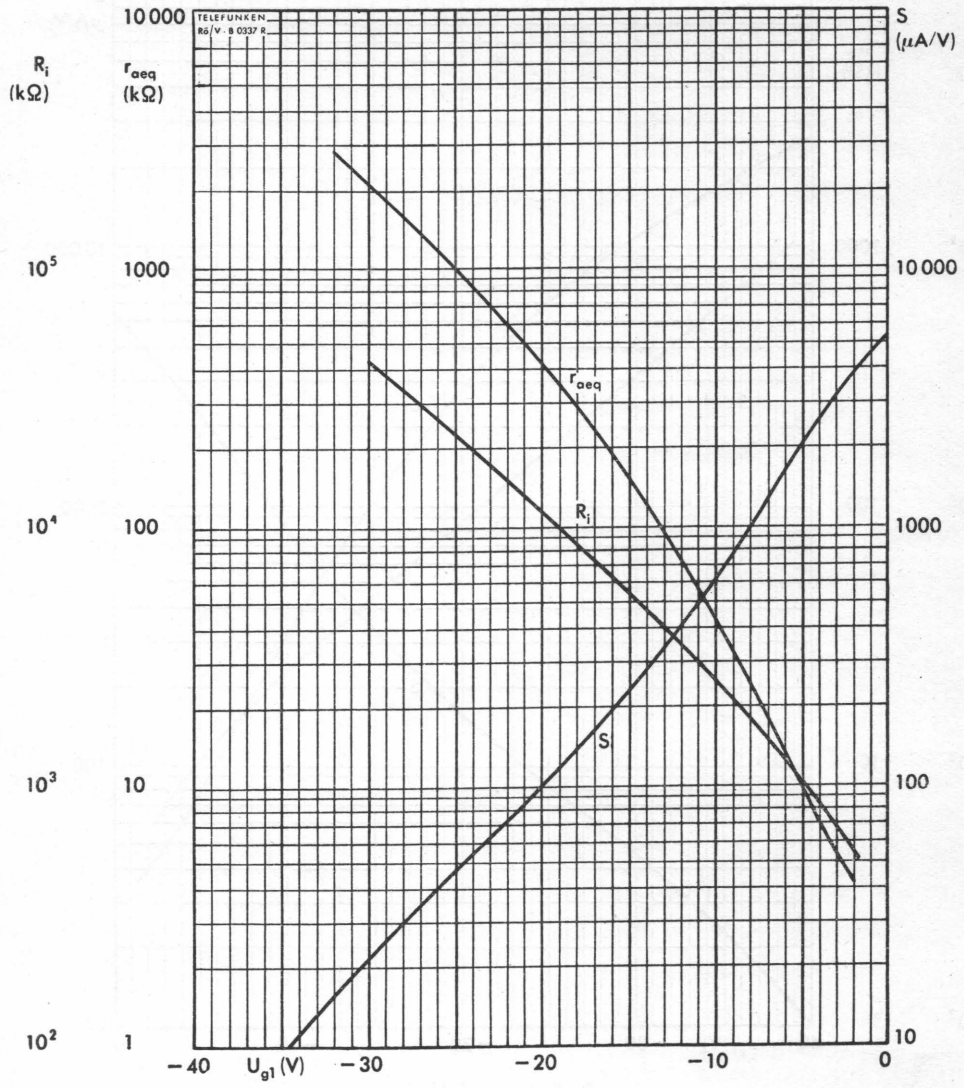
TELEFUNKEN



R_i, S, $r_{aeq} = f(U_{g1})$

$U_b = 100$ V

$R_{g2} = 15$ kΩ

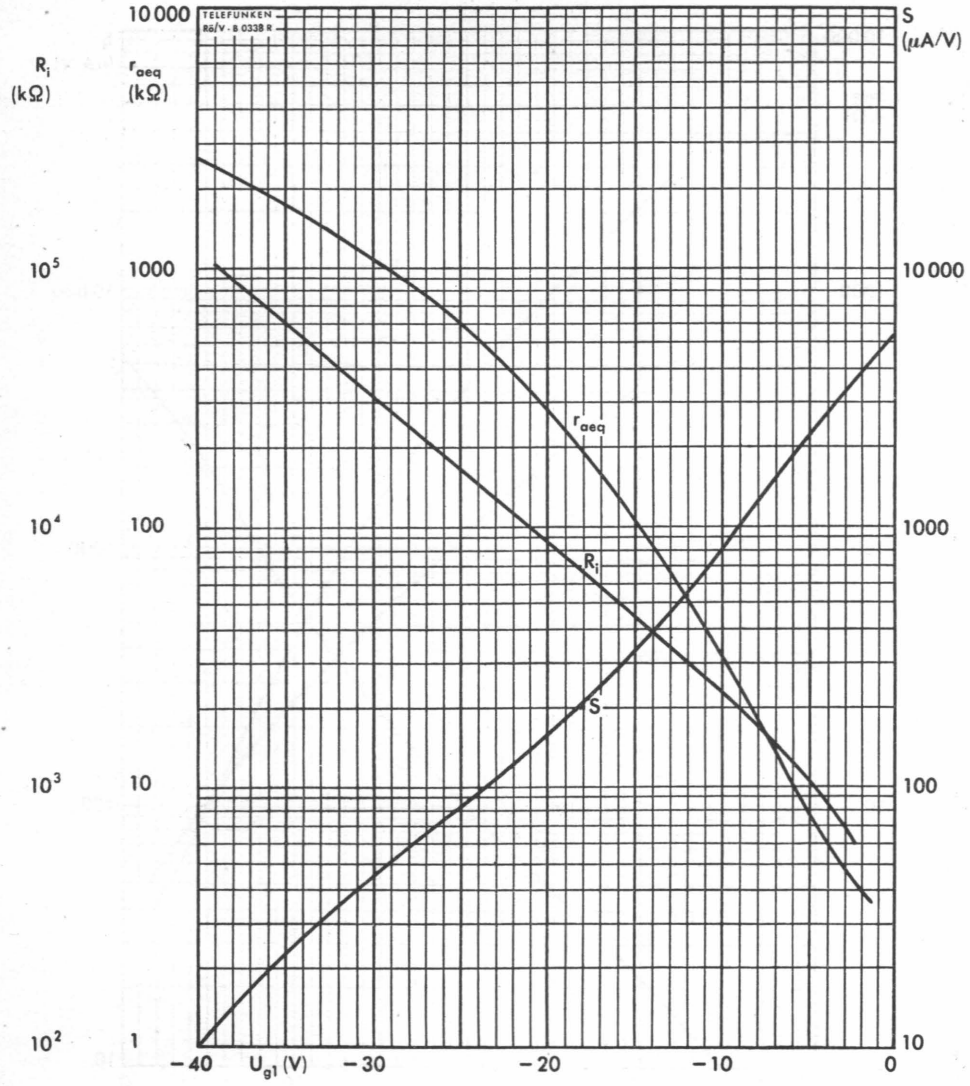


R_i, S, $r_{aeq} = f(U_{g1})$

$U_b = 170$ V

$R_{g2} = 15$ kΩ

TELEFUNKEN

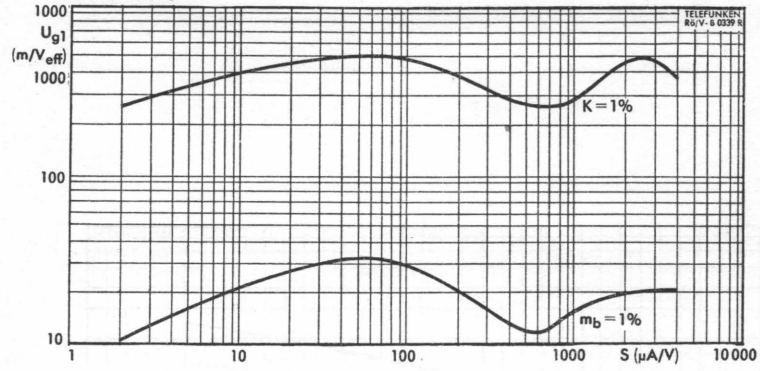


R_i, S, $r_{aeq} = f(U_{g1})$

$U_b = 200$ V

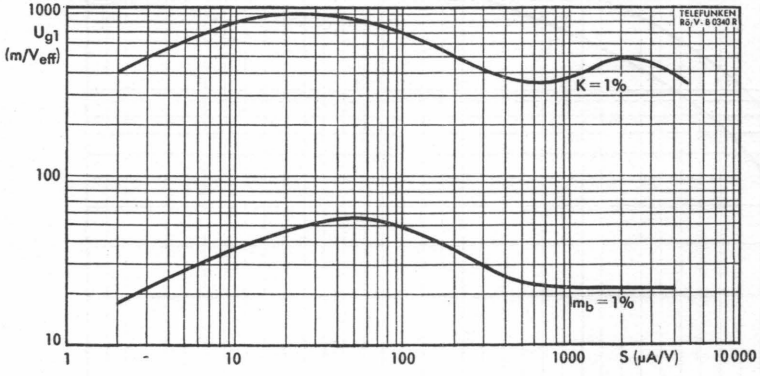
$R_{g2} = 24$ kΩ

Störspannung



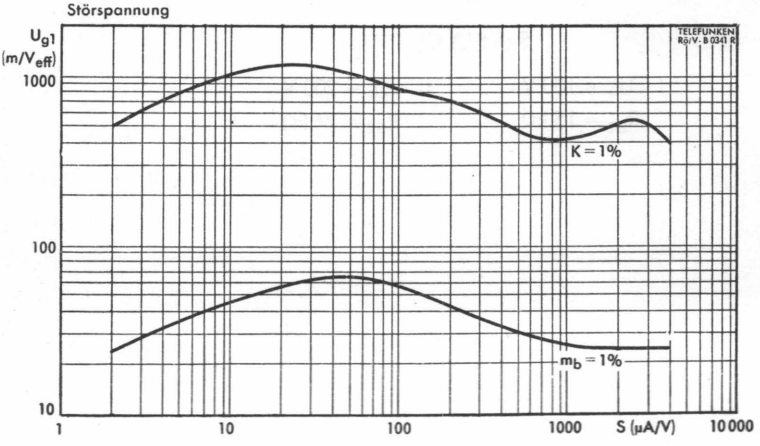
$U_b = 100$ V
$R_{g2} = 0 \ldots 15$ kΩ
$U_{g3} = 0$ V

Störspannung



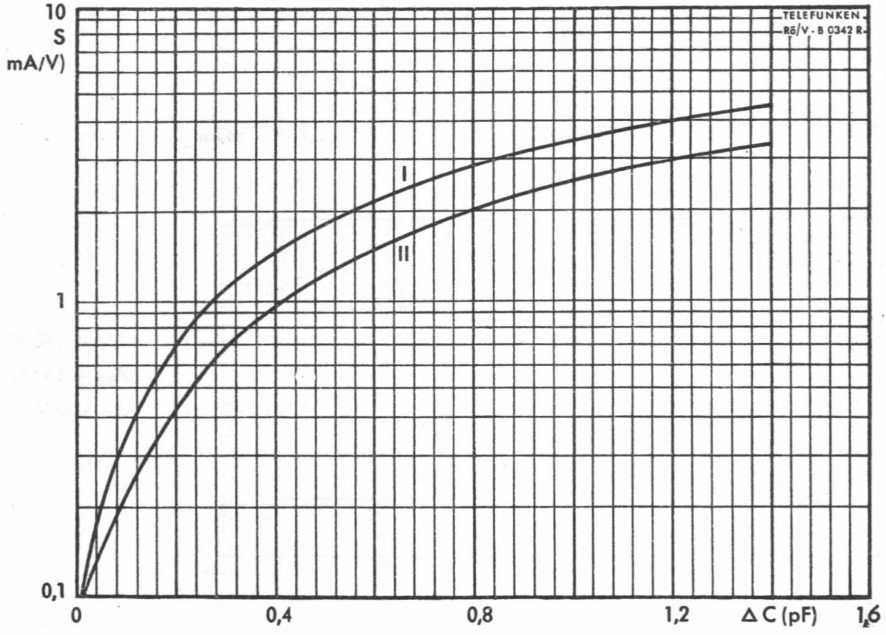
$U_b = 170$ V
$R_{g2} = 15$ kΩ
$U_{g3} = 0$ V

Störspannung



$U_b = 200$ V
$R_{g2} = 24$ kΩ
$U_{g3} = 0$ V

TELEFUNKEN



$S = f(\Delta C)$

I $U_b = 100$ V $R_{g2} = 15$ kΩ

II $U_b = 200$ V $R_{g2} = 24$ kΩ