Röhrentyp				ECC 8100	
Zahl der Elektroden			1	3+3	
Verwendungszweck			2	Hf Br, Casc, O	
Sockelschaltung			3	No 220	
Betriebsart			4	~	
U_f		V	5	6,3	
I_f		A	6	0,33	
Heizart			7	ind	
stat = statische Meßwerte)	Verwendet als		8	I: stat	II: stat
	U_a ◊ U_b	V	9	100[7]	100[7]
	U_{g3} ◊ U_{g3+5}	V	10		
	U_{g2} ◊ U_{g2+4}	V	11		
	U_{g1} ◊ U_{g4}	V	12	+8,6[10]	+8,6[10]
	R_k ◊ R_{g1}	kΩ	13	0,39	0,4
	I_a ◊ I_L ♦ I_{aS}	mA	14	25	25
	$I_{g2\,(+4)}$ ◊ I_{g3+5} ♦ I_{rg}	mA	15		
	S ◊ S_c ♦ S_0 (S_{eff})	mA/V	16	16	20
	◊ $\mu_{g2/g1}$		17	30	30
	r_e [100 MHz]	kΩ	18	1,9 ◊ 3,2	1,5
	◊ $R_{a/a}$	kΩ	19		
	◊ R_{g3} ♦ R_{g4}	kΩ	20		
	◊ V	kΩ ◊ fach	21	0,25	0,2
		%	22		
	$U_{g\,eff}$ ◊ $U_{g/g\,eff}$	V	23		
	P_a ◊ $P_\sim$	W	24		
Grenzwer	f_{max} ◊ I_l ♦ $\hat{i}_d$	MHz mA	25	300 40	300 40
	$I_{\cdot}$ ◊ $\hat{i}_k$	mA	26	◊ 400	◊ 400
	$P_{a\gamma}$	W	27	2,5	2,5
	U_a ◊ $\hat{u}_a$ ♦ $\hat{u}_d$	V	28	250	250
	$P_{g2\,(+4)\,v}$ ◊ $P_{g3\,(+5)\,v}$ ♦ P_{g2dv}	W	29		
	$U_{g2\,(+4)}$ ◊ $U_{g3\,(+5)}$ ♦ $U_{Lmin\ u\ max}$	V	30	$-U_g$: 50	$-U_g$: 50
	R_{g1} ◊ R_{g3} ♦ R_{g4}	MΩ	31	0,5	0,5
	$U_{f/k}$ ◊ $\hat{u}_{f/k}$	V	32	150	150
Mittelwerte	$c_{g1/a}$ ◊ $c_{a/k}$	pF	33	0,45	1,4; ◊ 0,18
	c_e ◊ $c_{k/g+f\,[+s]}$	pF	34	5,5	◊ 6,5
	c_a ◊ $c_{a/g+f\,[+s]}$	pF	35	4	◊ 2,8

ECC 8100

Doppeltriode mit getrennten Kathoden

System I mit Neutrodenschirm für Cascode-Schaltungen, Oszillatoren, Breitbandverstärkern

Twin triode with separate cathodes system I with internal screening between anode and grid for cascode circuits, oscillators, wide-band amplifiers

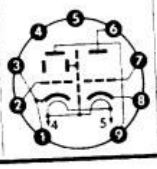
Z LL To Sto Spk

Pico 9
Noval
Größe 8
Outlines 8

U_f = 6,3 V ± 5%
I_f = 330 mA
indirekt geheizt
indir. heated

Stift · Pin

1	k_I
2	g_I
3	k_I
4	f, n, s
5	f
6	a_{II}
7	g_{II}
8	k_{II}
9	a_I



System I

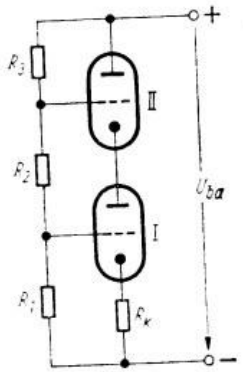
U_{ba} = 100 V
$+U_{bg}$ = 8,6 V
R_k = 390 Ω
I_a = 25 mA
S = 16 mA/V
μ = 30
r_{aeq} = 250 Ω
r_{el} (200 MHz) [1] = 0,8 kΩ
F (200 MHz) [2] = 4,6 dB

System II

U_{ba} = 100 V
$+U_{bg}$ = 8,6 V
R_k = 400 Ω
I_a = 25 mA
S = 20 mA/V
μ = 30
r_{aeq} = 200 Ω
F (200 MHz) [2] = 4,6 dB

Cascodeschaltung · Cascode circuit

U_{ba}	=	100	190 V	R_2	=	100	100 kΩ
R_k	=	700	400 Ω	R_3	=	100	100 kΩ
R_1	=	10	10 kΩ	I_a	=	15	25 mA



Kapazitäten · Capacitances
ohne äußere Abschirmung
without external screening

$c_{gI/kI + fns}$	= 5,5	pF
$c_{aI/kI + fns}$	= 4	pF
$c_{aI/gI}$	= 0,4	pF
$c_{kII/gII + fns}$	= 6,5	pF
$c_{aII/gII + fns}$	= 2,9	pF
$c_{aII/gII}$	= 1,5	pF
$c_{aII/kII}$	= 0,2	pF

Absolute Grenzwerte
Absolute maximum ratings
per System

U_{ao}	=	450 V
U_a	=	250 V
N_a	=	2,5 W
$-U_g$	=	50 V
$-U_{gsp}$	=	150 V
I_k	=	40 mA
I_{ksp}	=	400 mA
R_g [3]	=	0,5 MΩ
$U_{f/k+}$ (System I)	=	50 V
$U_{f/k+}$ (System II)	=	120 V
t_{Kolben}	=	190 °C

1) Stift 1 und 3 verbunden
Pin 1 connected to pin 3
2) gemessen in Cascode-Schaltung
measured in cascode circuit
3) U_g mittels R_k
U_g by R_k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