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Early anode current test setup-> ECC88 types and equivalents

– Ia is tested with: Va = 90V, Vg= -1,2V. Measurement after 10 minutes stabilization. Rated value new ECC88: Ia = 15mA. If tubes are tested with this setup it is specified in the description.

Presently all tubes of the ECC88 family are tested with the factory test setup as specified below;

Anode current (Ia) is tested with the official Telefunken/Philips/Mullard test setup: Va = 100V , Vg= +9 with 680 Ohm cathode resistor. Measurement after 10 minutes stabilization. Factory specification NEW E88CC: Ia = 15 ± 0,8mA.

Mutual transconductance (Gm) tests are done with a 10% Vg signal. Factory specification new ECC88: Gm= 12,5 +2,4/-2 mA/V.

Gas and shorts are tested with: AVO CT-160 (Dutch army tester) Setup: AVO Valve Data Manual 23rd edition 1981.

Telefunken E88CC specification

Meßwerte • Measuring values

je System			
U_{ba}	100	250	V
R_k	2	1,6	k Ω
I_a	0,5	$1,25 \pm 0,15$	mA
S	1,25	$1,6^{+0,35}_{-0,3}$	mA/V
μ	100	100	
R_i	80	62,5	k Ω
$-I_g$		$\leq 0,2$	μA
$-U_g (I_a = 20 \mu A)$		≤ 4	V
$-U_g (I_g = + 0,3 \mu A)$		≤ 1	V

1) Die garantierte Lebensdauer gilt nur, wenn die Heizspannung in den Grenzen von $\pm 5\%$ gehalten wird (absolute Grenzen).

The guaranteed life applies only if the filament voltage is kept in the limits $\pm 5\%$ (absolute limits).

010165



Siemens E88CC specification



KENNDATEN, GRENZDATEN

Kenndaten

		min.	nom.	max.	nom.	
U_{ba}	\approx		100		90	V
$+U_{bg}$	$=$		9		0	V
R_k	$=$		680		120	Ω
I_a	$=$	14,2	15,0	15,8	12	mA
S	$=$	10,5	12,5	15,0	11,5	mA/V
μ	$=$		33			
R_i	$=$		2,6			k Ω
R_{ac_1}	$=$		300			Ω
R_{el} (100 MHz)	$=$		• 3			k Ω
Rauschzahl F	$=$		4,6			dB 1)
$U_{g\sim}(+I_g=0,3 \mu A)$	$=$		0,75			V
$-I_g$	$<$			0,1		μA

Schaltbild siehe Seite 6

Siemens E88CC end of life specification

E 88 CC
6922

BESONDERE ANGABEN



Besondere Angaben

Brumm

$U_{br} \leq 50 \mu V$

Meßeinstellung: $U_a = 90 V$, $R_k = 80 \Omega$, $C_k = 1000 \mu F$, $R_g = 0,5 M\Omega$,
völlig geschirmte Röhrenfassung
Mittensymmetrierung des Heizfadens

Isolationswiderstände

$R_{is} (g/\text{alle übrigen Elektroden bei } U_{is} = 100 V) > 100 M\Omega$
 $R_{is} (a/\text{alle übrigen Elektroden bei } U_{is} = 300 V) > 100 M\Omega$
 $R_{is} (fk- \text{ bei } U_{is} = 100 V) > 10 M\Omega$
 $R_{is} (fk+ \text{ bei } U_{is} = 100 V) > 20 M\Omega$

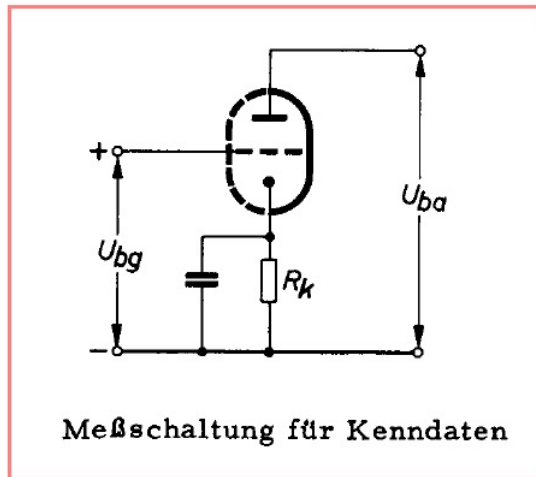
gemessen bei $U_f = 6,3 V$

Ende der Lebensdauer

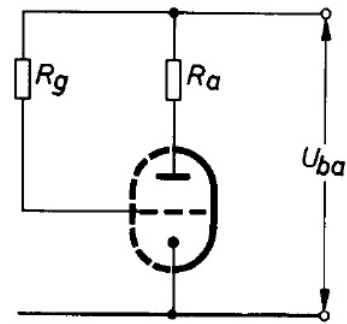
$I_a < 13,5 mA$
 $S \leq 8,5 mA/V$
 $-I_g \geq 1,0 \mu A$

Meßeinstellung: siehe Kenndaten mit $R_k = 680 \Omega$

Siemens test setup specification



1) Meßdauer ≤ 1 sec.



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