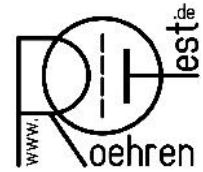


# EL84 - test protocol

04.08.2020 14:46:44

#41



## Pre-settings:

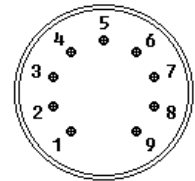
heater voltage:6.3 V, heater current:0.76 A, heater type:indirekt

## results:

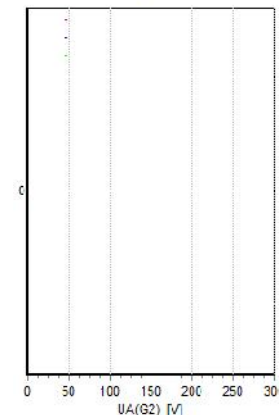
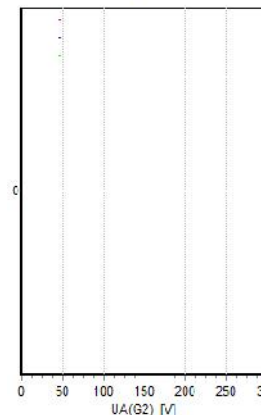
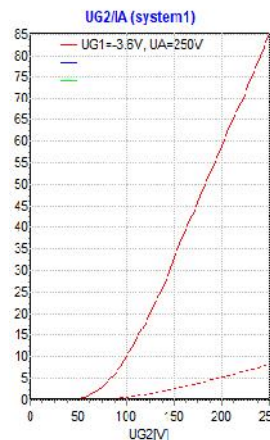
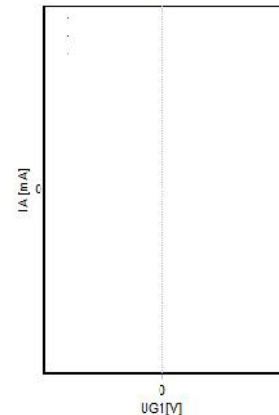
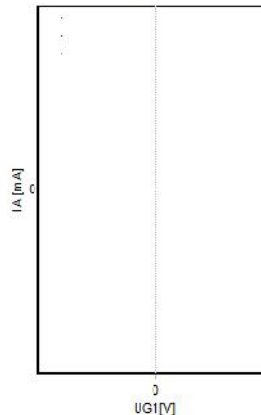
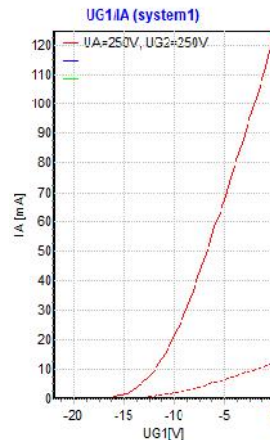
system	1	2	3
type of tube system	Pentode	-	-
pinout			
Pin 1	IV		
Pin 2	G1		
Pin 3	K		
Pin 4	F1		
Pin 5	F2		
Pin 6	IV		
Pin 7	A		
Pin 8	IV		
Pin 9	G2		
Pin 10 or ext. connecto			
absolute maximum rat			
UA [V]	300.0	0.0	0.0
UG2 [V]	300	0	0
IK [mA]	65.000	0.000	0.000
NA [W]	12.000	0.000	0.000
NG2 [W]	2.000	0.000	0.000
typical ratings:			
UA [V]	250.0	0.0	0.0
UG1 [V]	-7.30	0.00	0.00
UG2 [V]	250.0	0.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	48.000	0.000	0.000
IG2 [mA]	5.500	0.000	0.000
S [mA/V]	11.30	0.00	0.00
$\mu$	19.0	0.0	0.0
D [%]	0.0	0.0	0.0
Ri [kOhm]	40.0	0.0	0.0
Data for curves:			
Grid1 curves:	UG1/IA		
1: UA [V]	250		
1: UG1 [V] starting at	-21.9		
1: UG2 [V]	250		
1: UG3 [V]	0		
2: UA [V]	188		
2: UG1 [V] starting at	-21.9		
2: UG2 [V]	188		
2: UG3 [V]	0		
3: UA [V]	125		
2: UG1 [V] starting at	-21.9		
3: UG2 [V]	125		
3: UG3 [V]	0		
Plate-Screen curves	UG2/IA		
1: UA [V] up to	250		
1: UG1 [V]	-3.6		
1: UG2 [V] up to	250		
1: UG3 [V]	0		
2: UA [V] up to	250		
2: UG1 [V]	-7		
2: UG2 [V] up to	250		
2: UG3 [V]	0		
3: UA [V] up to	250		
3: UG1 [V]	-15		
3: UG2 [V] up to	250		
3: UG3 [V]	0		
f(UaPentode) start at[V			
AC-simulation, +V	0	0	0

system	1	2	3
type of tube system	Pentode		
nominal plate current [mA]	48		
measured plate current [mA]	41.73		
= percent of nominal	87		
Nominal screen grid current [mA]	5.5		
measured screen current [mA]	3.972		
= percent of nominal	72		
transconductance [mA/V]	9		
at grid voltage change (dUG1) [V]	0.6		
plate current [mA] at + 1/2 dUG1	44.66		
plate current [mA] at - 1/2 dUG1	39.26		
$\mu$	375		
D of plate in % ( D = 1/ $\mu$ )	0.3		
measured plate current [mA]	40.2		
at plate voltage	175.14		
D G2 [%]			
measured plate current [mA]			
at screen voltage			
Ri [KOhm]	39.3		
Ig [ $\mu$ A]	9.125		

base:Noval B9A



8 x 36° 1.02°  
PC  $\phi$ : 11.9 mm B9A



measured heater voltage:6.25 V

measured heater current:796.5 mA (Ph=4.978 W)

Aufheizzeit: 120 s

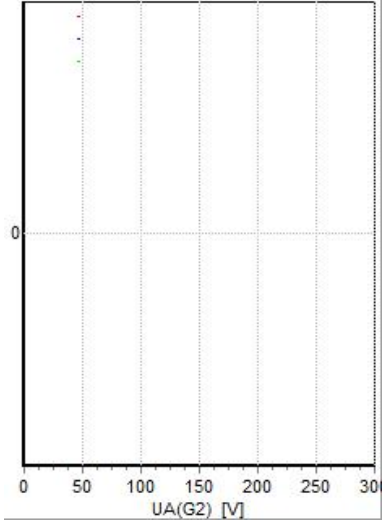
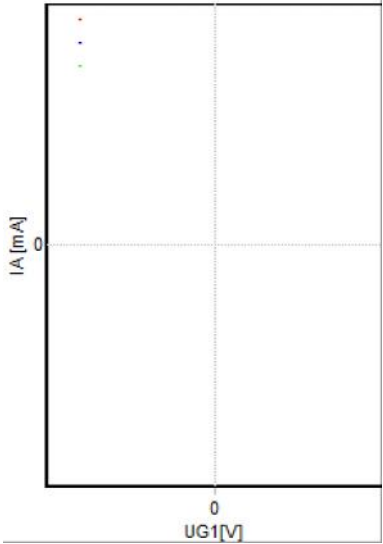
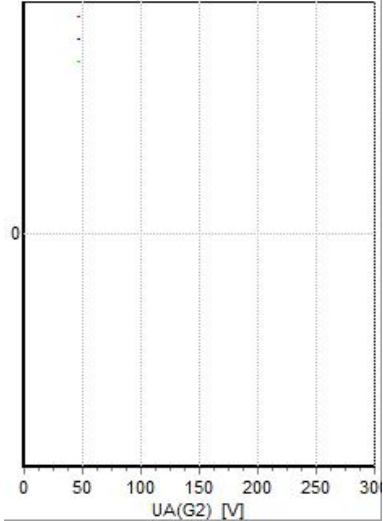
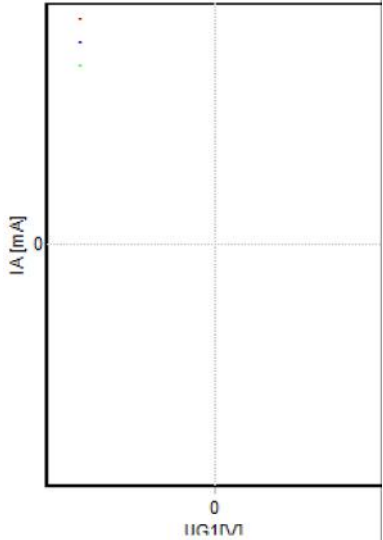
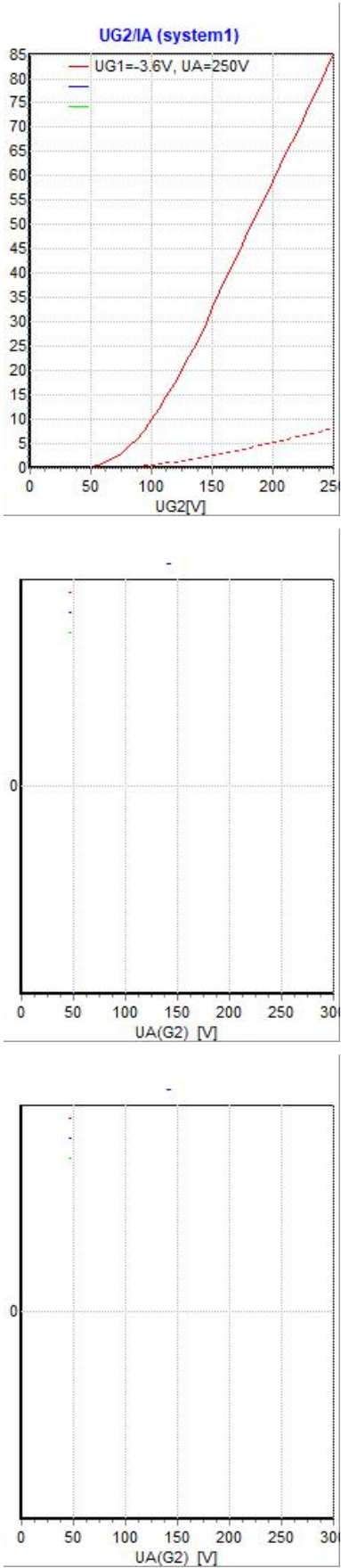
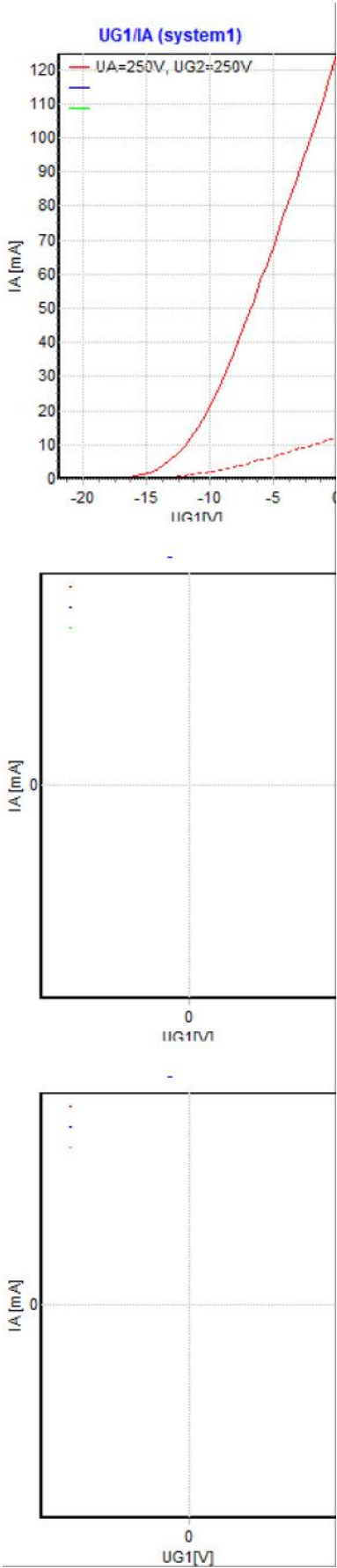
test cathode isolation = o.k.

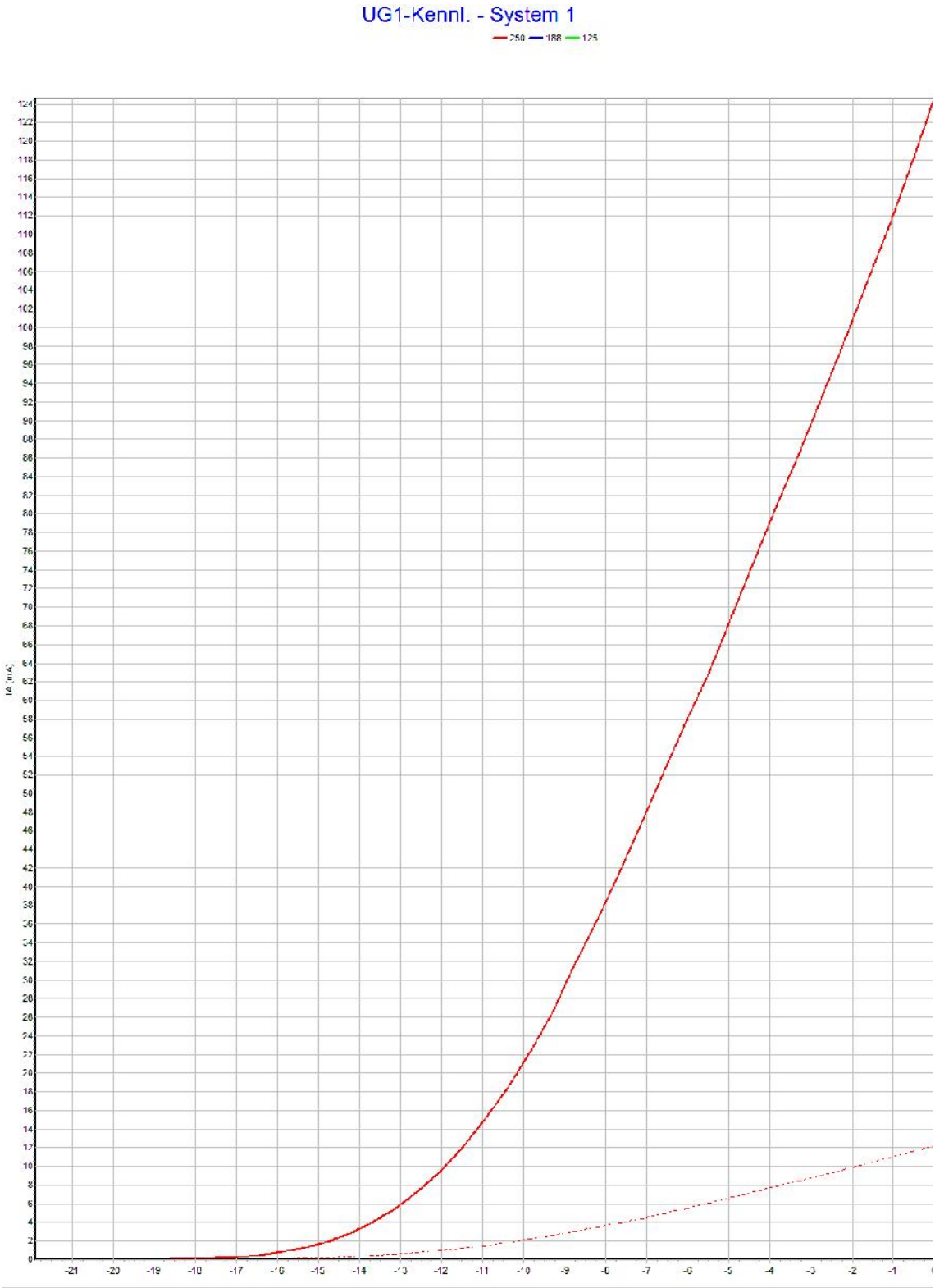
Ig (system:1/2/3)[ $\mu$ A]:9.125 / 0 / 0

faktor vakuum: 0.00021000

Plate current variation:230.7 [%], IgR: 141.26 mA, IgIR: 42.71 mA

= CV8069, 6L40, 6p14p russ, 6GK6, N709, CV2975, 6P15





UG1-Kennl. - System 2  
250 100 125

