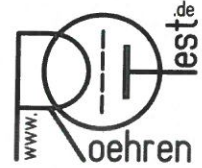


12AU7 - test protocol

17.01.2021 12:05:15
#133



Pre-settings:

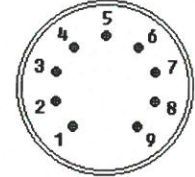
heater voltage:12.6 V, heater current:0.15 A, heater type:indirekt

results:

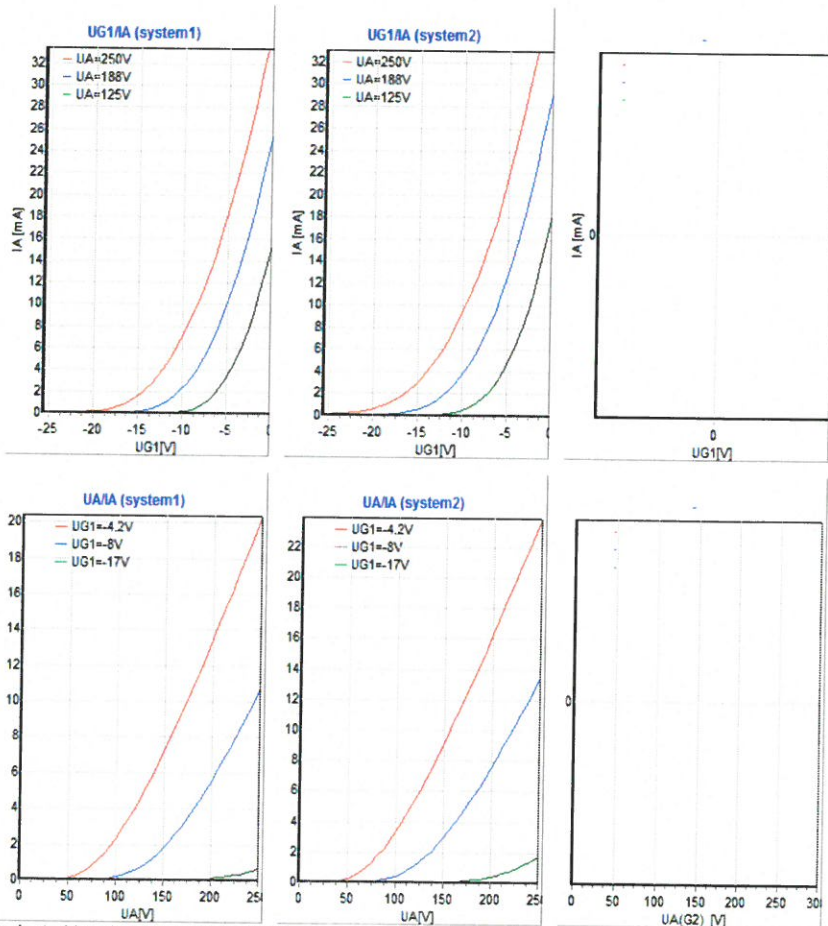
system	1	2	3
type of tube system	Triode	Triode	-
pinout			
Pin 1		A	
Pin 2		G1	
Pin 3		K	
Pin 4	F1	F1	
Pin 5	F2	F2	
Pin 6	A		
Pin 7	G1		
Pin 8	K		
Pin 9	FM	FM	
Pin 10 or ext. connect			
absolute maximum rat			
UA [V]	300.0	300.0	0.0
UG2 [V]	0	0	0
IK [mA]	20.000	20.000	0.000
NA [W]	2.700	2.700	0.000
NG2 [W]	0.000	0.000	0.000
typical ratings:			
UA [V]	250.0	250.0	0.0
UG1 [V]	-8.50	-8.50	0.00
UG2 [V]	0.0	0.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	10.500	10.500	0.000
IG2 [mA]	0.000	0.000	0.000
S [mA/V]	2.20	2.20	0.00
μ	17.0	17.0	0.0
D [%]	0.0	0.0	0.0
Ri [kOhm]	7.7	7.7	0.0
Data for curves:			
Grid1 curves:	UG1/IA	UG1/IA	
1: UA [V]	250	250	
1: UG1 [V] starting at	-25.5	-25.5	
1: UG2 [V]	0	0	
1: UG3 [V]	0	0	
2: UA [V]	188	188	
2: UG1 [V] starting at	-25.5	-25.5	
2: UG2 [V]	0	0	
2: UG3 [V]	0	0	
3: UA [V]	125	125	
2: UG1 [V] starting at	-25.5	-25.5	
3: UG2 [V]	0	0	
3: UG3 [V]	0	0	
Plate-Screen curves	UA/IA	UA/IA	
1: UA [V] up to	250	250	
1: UG1 [V]	-4.2	-4.2	
1: UG2 [V] up to	0	0	
1: UG3 [V]	0	0	
2: UA [V] up to	250	250	
2: UG1 [V]	-8	-8	
2: UG2 [V] up to	0	0	
2: UG3 [V]	0	0	
3: UA [V] up to	250	250	
3: UG1 [V]	-17	-17	
3: UG2 [V] up to	0	0	
3: UG3 [V]	0	0	
f(UaPentode) start at[V]			
AC-simulation, +V	0	0	0

system	1	2	3
type of tube system	Triode	Triode	
nominal plate current [mA]	10.5	10.5	
measured plate current [mA]	9.774	12.099	
= percent of nominal	93	115	
Nominal screen grid current [mA]			
measured screen current [mA]			
= percent of nominal			
transconductance [mA/V]	1.98	2.13	
at grid voltage change (dUG1) [V]	0.6	0.6	
plate current [mA] at + 1/2 dUG1	10.382	12.722	
plate current [mA] at - 1/2 dUG1	9.197	11.447	
μ	18.2	17.8	
D of plate in % (D = 1/μ)	5.5	5.6	
measured plate current [mA]	7.174	9.214	
at plate voltage	224.77	224.77	
D G2 [%]			
measured plate current [mA]			
at screen voltage			
Ri [KOhm]	9.6	8.6	
Ig [μA]	0.0662	0.0384	

base:Noval B9A



8 x 36° 1.02 ϕ
PC ϕ: 11.9 mm B9A



selected heating version:intern DC
measured heater voltage:12.61 V
measured heater voltage:12.61 V
measured heater current:149.69 mA (Ph=1.888 W)
Aufheizzeit: 120 s

test cathode isolation = o.k.
test cathode isolation = o.k.
test cathode isolation = o.k.
test cathode isolation = o.k.

Ig (system:1/2/3)[μA]:0.0662 / 0.0384 / 0
faktor vakuu: 0.00000680
Plate current variation:0.8 [%], IgR: 12.272 mA, IgJR: 12.174 mA

= ECC82

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