

12AU7 - test protocol

17.01.2021 10:49:35
#132



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. connecto			

absolute maximum rat	1	2	3
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:

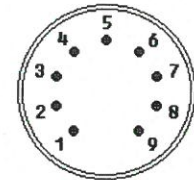
Grid1 curves:	UG1/IA	UG1/IA
1: UA [V]	250	250
1: UG1 [V] starting at	-25.5	-25.5
1: UG2 [V]	0	0
1: UG3 [V]	0	0
2: UA [V]	188	188
2: UG1 [V] starting at	-25.5	-25.5
2: UG2 [V]	0	0
2: UG3 [V]	0	0
3: UA [V]	125	125
2: UG1 [V] starting at	-25.5	-25.5
3: UG2 [V]	0	0
3: UG3 [V]	0	0

Plate-Screen curves

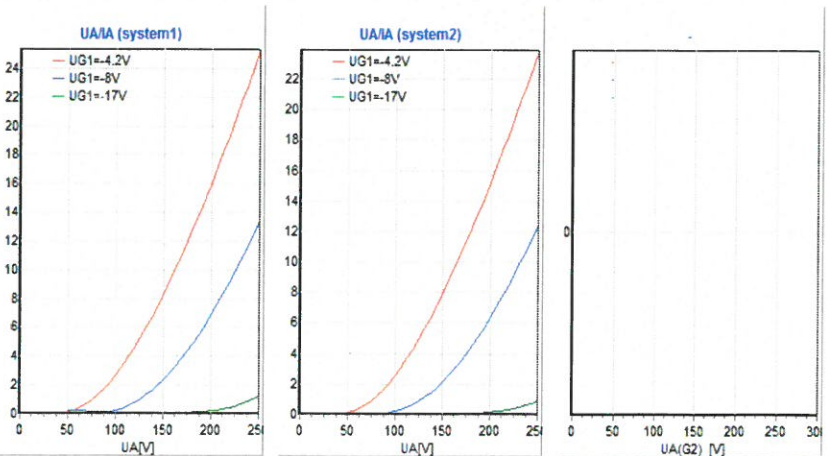
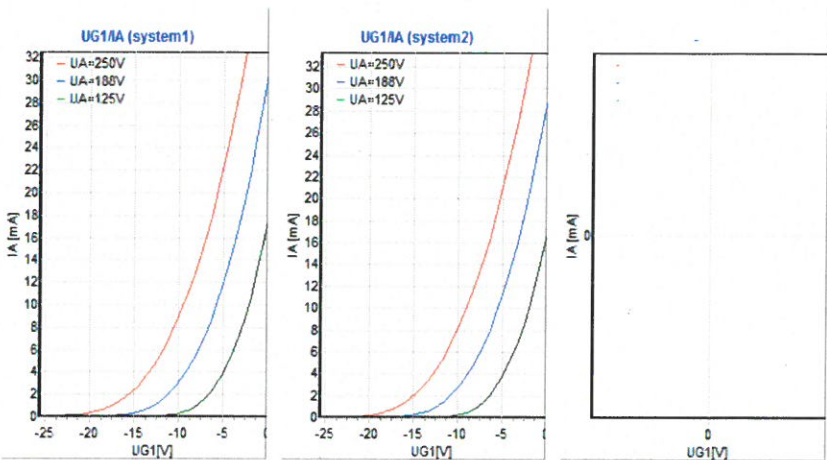
	UA/IA	UA/IA
1: UA [V] up to	250	250
1: UG1 [V]	-4.2	-4.2
1: UG2 [V] up to	0	0
1: UG3 [V]	0	0
2: UA [V] up to	250	250
2: UG1 [V]	-8	-8
2: UG2 [V] up to	0	0
2: UG3 [V]	0	0
3: UA [V] up to	250	250
3: UG1 [V]	-17	-17
3: UG2 [V] up to	0	0
3: UG3 [V]	0	0
f(UaPentode) start at[V]		
AC-simulation, +V	0	0

system	1	2	3
type of tube system	Triode	Triode	
nominal plate current [mA]	10.5	10.5	
measured plate current [mA]	12.099	11.244	
= percent of nominal	115	107	
Nominal screen grid current [mA]			
measured screen grid current [mA]			
= percent of nominal			
transconductance [mA/V]	2.33	2.2	
at grid voltage change (dUG1) [V]	0.6	0.6	
plate current [mA] at + 1/2 dUG1	12.819	11.987	
plate current [mA] at - 1/2 dUG1	11.424	10.667	
μ	17.2	17.8	
D of plate in % (D = 1/ μ)	5.8	5.6	
measured plate current [mA]	8.892	8.337	
at plate voltage	224.77	224.85	
D G2 [%]			
measured plate current [mA]			
at screen voltage			
Ri [KOhm]	7.7	8.1	
Ig [μ A]	0.0161	0.017	

base:Noval B9A



8 x 36° 1.02 ϕ
PC ϕ : 11.9mm B9A



selected heating version:intern DC
measured heater voltage:12.61 V
measured heater current:0.15 A
measured heater current:147.89 mA (Ph=1.865 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)[μ A]:0.0161 / 0.017 / 0
faktor vakuu: 0.00000130
Plate current variation:0.4 [%], IgR: 11.492 mA, IgR: 11.447 mA

= ECC82

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