

12AT7 (ECC81) - test protocol

09.07.2021 06:42:24



Vorgaben/Pre-settings:

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

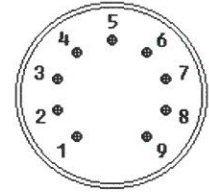
Ergebnisse/Results:

#1252

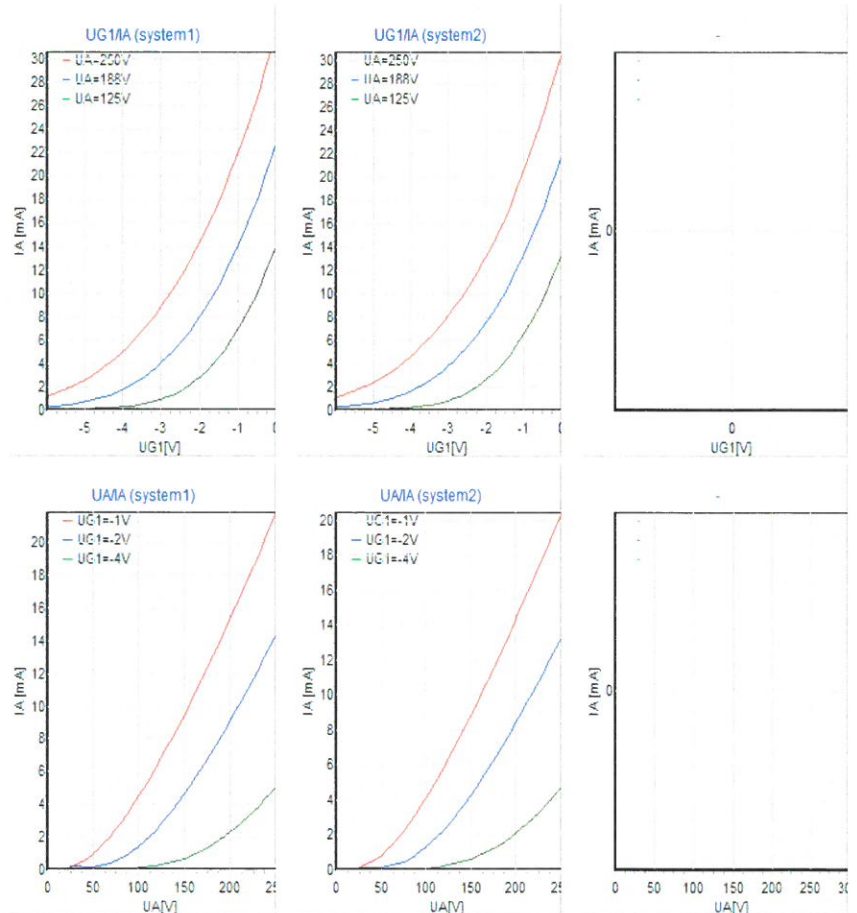
system	1	2	3
type of tube system	Triode	Triode	-
pinout			
Pin 1		A	
Pin 2		G1	
Pin 3		K	
Pin 4	F1	F1	
Pin 5	F2	F2	
Pin 6	A		
Pin 7	G1		
Pin 8	K		
Pin 9	FM	FM	
Pin 10 or ext. connector			
absolute maximum ratings:			
UA [V]	300.0	300.0	0.0
UG2 [V]	0	0	0
IK [mA]	15.000	15.000	0.000
NA [W]	2.500	2.500	0.000
NG2 [W]	0.000	0.000	0.000
typical ratings:			
UA [V]	250.0	250.0	0.0
UG1 [V]	-2.00	-2.00	0.00
UG2 [V]	0.0	0.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	10.000	10.000	0.000
IG2 [mA]	0.000	0.000	0.000
S [mA/V]	5.50	5.50	0.00
μ	60.0	60.0	0.0
D [%]	1.6	1.6	0.0
Ri [kOhm]	11.0	11.0	0.0
Data for curves:			
Grid1 curves:	UG1/IA	UG1/IA	
1: UA [V]	250	250	
1: UG1 [V] starting at	-6	-6	
1: UG2 [V]	0	0	
1: UG3 [V]	0	0	
2: UA [V]	188	188	
2: UG1 [V] starting at	-6	-6	
2: UG2 [V]	0	0	
2: UG3 [V]	0	0	
3: UA [V]	125	125	
2: UG1 [V] starting at	-6	-6	
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]	-1	-1	
1: UG2 [V] up to	0	0	
1: UG3 [V]	0	0	
2: UA [V] up to	250	250	
2: UG1 [V]	-2	-2	
2: UG2 [V] up to	0	0	
2: UG3 [V]	0	0	
3: UA [V] up to	250	250	
3: UG1 [V]	-4	-4	
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	10	
measured plate current [mA]	14.942	13.697	
= percent of nominal	149	137	
Nominal screen grid current [mA]			
measured screen current [mA]			
= percent of nominal			
transconductance [mA/V]	6.58	6.13	
at grid voltage change (dUG1) [V]	0.6	0.6	
plate current [mA] at + 1/2 dUG1	16.989	15.444	
plate current [mA] at - 1/2 dUG1	13.044	11.769	
μ	55.5	55.3	
D of plate in % (D = 1/ μ)	1.8	1.8	
measured plate current [mA]	12.087	10.887	
at plate voltage	224.85	224.85	
D G2 [%]			
measured plate current [mA]			
at screen voltage			
Ri [kOhm]	8.9	9.7	
Ig [μ A]	0.0504	0.0438	

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 current:144.89 mA (Ph=1.827 W)
Aufheizzeit: 46 s

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

Ig (system:1/2/3):0.0504 / 0.0438 / 0
faktor vakuum: 0.0000340
Plate current variation:2.4 [%]. IgR: 13.764 mA. IgR: 13.442 mA

Surplus Sales of Nebraska
Where the Hard To Find Parts Are Found...
And On Hand

www.surplussales.com
(402) 346-4750

= CV10662, CV8154, 7728, QA2406, A2900, QB309, B739, E2157, CV455, B309, B152, 12AT7, 6060, 6679, ECC81WA