

6U8A - test protocol

Vorgaben/Pre-settings:

heater voltage:6.3 V, heater current:0.45 A, heater type:indirekt

Ergebnisse/Results:

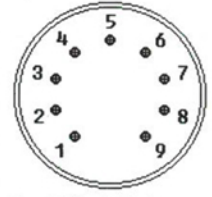
#1437



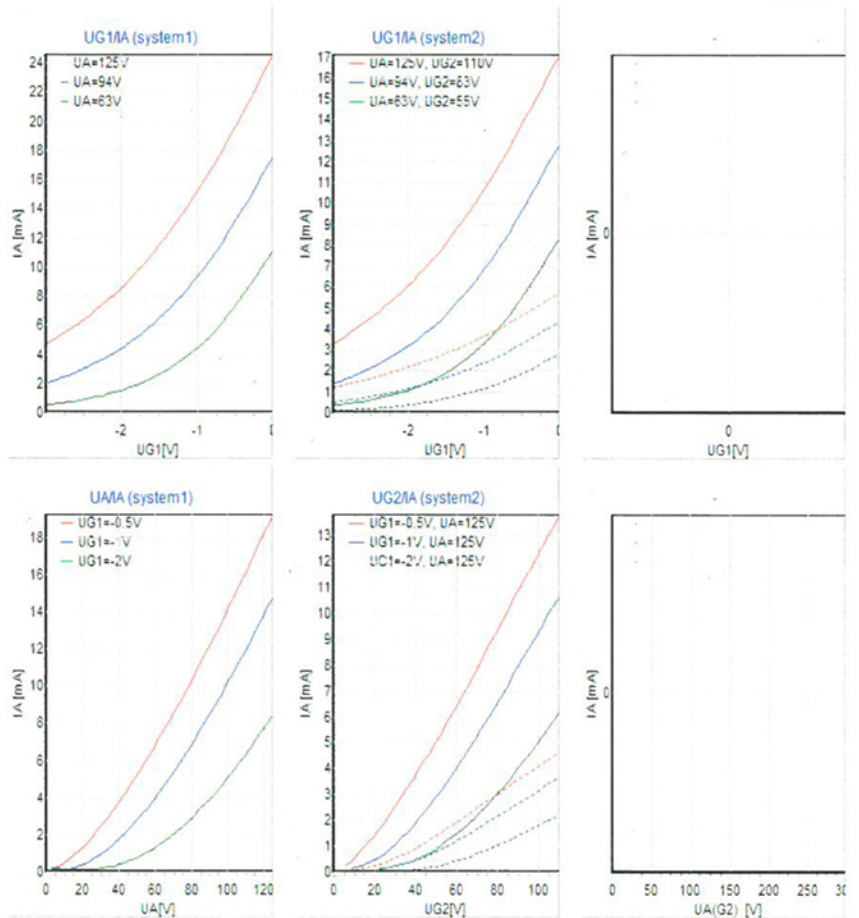
system	1	2	3
type of tube system	Triode	Pentode	-
pinout			
Pin 1	A		
Pin 2		G1	
Pin 3		G2	
Pin 4	F1	F1	
Pin 5	F2	F2	
Pin 6		A	
Pin 7		K	
Pin 8	K		
Pin 9	G1		
Pin 10 or ext. connector			
absolute maximum ratings:			
UA [V]	330.0	330.0	0.0
UG2 [V]	0	330	0
IK [mA]	0.000	0.000	0.000
NA [W]	2.500	3.000	0.000
NG2 [W]	0.000	0.550	0.000
typical ratings:			
UA [V]	125.0	125.0	0.0
UG1 [V]	-1.00	-1.00	0.00
UG2 [V]	0.0	110.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	13.500	9.500	0.000
IG2 [mA]	0.000	3.500	0.000
S [mA/V]	7.50	5.00	0.00
μ	40.0	32.0	0.0
D [%]	0.0	0.0	0.0
Ri [kOhm]	5.4	200.0	0.0
Data for curves:			
Grid1 curves:	UG1/IA	UG1/IA	
1: UA [V]	125	125	
1: UG1 [V] starting at	-3	-3	
1: UG2 [V]	0	110	
1: UG3 [V]	0	0	
2: UA [V]	94	94	
2: UG1 [V] starting at	-3	-3	
2: UG2 [V]	0	83	
2: UG3 [V]	0	0	
3: UA [V]	63	63	
2: UG1 [V] starting at	-3	-3	
3: UG2 [V]	0	55	
3: UG3 [V]	0	0	
Plate-Screen curves	UA/IA	UG2/IA	
1: UA [V] up to	125	125	
1: UG1 [V]	-0.5	-0.5	
1: UG2 [V] up to	0	110	
1: UG3 [V]	0	0	
2: UA [V] up to	125	125	
2: UG1 [V]	-1	-1	
2: UG2 [V] up to	0	110	
2: UG3 [V]	0	0	
3: UA [V] up to	125	125	
3: UG1 [V]	-2	-2	
3: UG2 [V] up to	0	110	
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	Pentode	
nominal plate current [mA]	13.5	9.5	
measured plate current [mA]	15.119	10.642	
= percent of nominal	112	112	
Nominal screen grid current [mA]		3.5	
measured screen current [mA]		3.657	
= percent of nominal		104	
transconductance [mA/V]	8.19	5.63	
at grid voltage change (dUG1) [V]	0.6	0.6	
plate current [mA] at + 1/2 dUG1	17.767	12.412	
plate current [mA] at - 1/2 dUG1	12.854	9.037	
μ	41.5	751.4	
D of plate in % (D = 1/μ)	2.4	0.1	
measured plate current [mA]	12.758	10.39	
at plate voltage	112.35	87.3	
D G2 [%]		2.5	
measured plate current [mA]		9.059	
at screen voltage		99.2	
Ri [kOhm]	5.1	169.2	
Ig [μA]	-0.0458	-0.0911	

base: Noval B9A



8 x 36° 1.02 φ
PC φ: 11.9 mm B9A



selected heating version: intern DC
measured heater voltage: 6.58 V
measured heater current: 450.45 mA (Ph=2.964 W)
Aufheizzeit: 59 s

test cathode isolation = o.k.
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Ia (system: 1/2/3) [μA]: -0.0458 / -0.0911 / 0
faktor vakuu: -0.0000300
Plate current variation: -5.8 [%], IgR: 9.967 mA, Ig|R: 10.582 mA

=6KD8 -6GH8, -ECF82_EU, -6EA8, -6KD8
Tung-Sol: Nat=2.5

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