

6BA6 (EF93) - test protocol

13.01.2021 08:19:31
#60



Pre-settings:

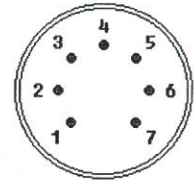
heater voltage:6.3 V, heater current:0.3 A, heater type:indirekt

results:

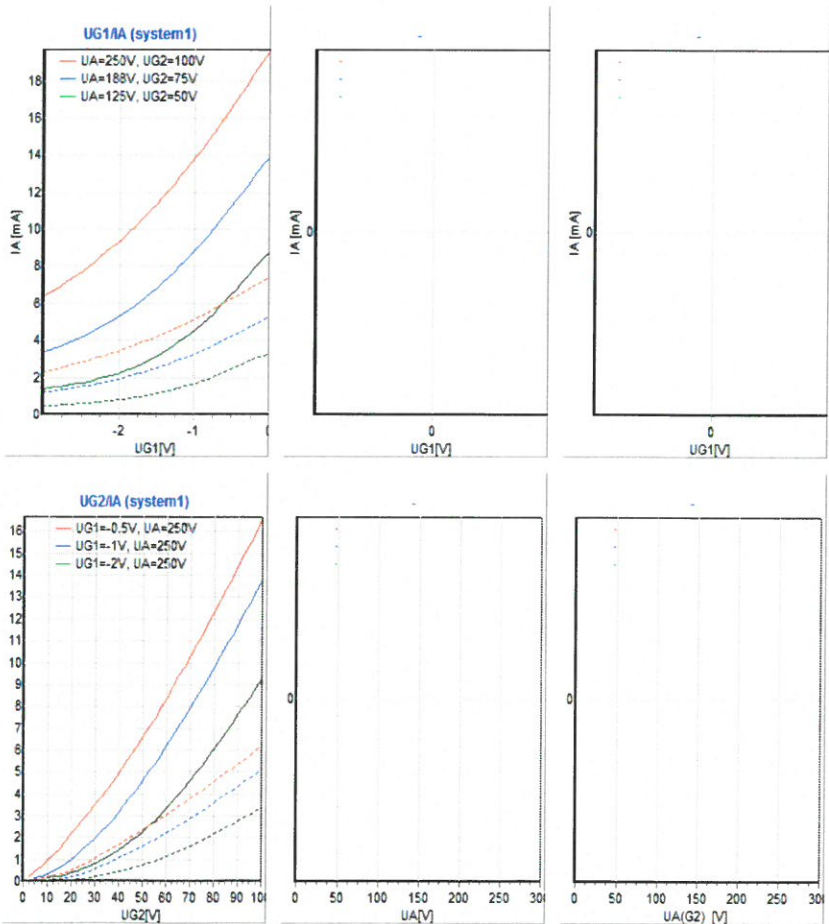
system	1	2	3
type of tube system	Pentode	-	-
pinout			
Pin 1	G1		
Pin 2	G3		
Pin 3	F1		
Pin 4	F2		
Pin 5	A		
Pin 6	G2		
Pin 7	K		
Pin 8			
Pin 9			
Pin 10 or ext. connect			
absolute maximum rat			
UA [V]	300.0	0.0	0.0
UG2 [V]	125	0	0
IK [mA]	18.000	0.000	0.000
NA [W]	3.000	0.000	0.000
NG2 [W]	0.600	0.000	0.000
typical ratings:			
UA [V]	250.0	0.0	0.0
UG1 [V]	-1.00	0.00	0.00
UG2 [V]	100.0	0.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	11.000	0.000	0.000
IG2 [mA]	4.200	0.000	0.000
S [mA/V]	4.40	0.00	0.00
μ	0.0	0.0	0.0
D [%]	0.0	0.0	0.0
Ri [kOhm]	1500.0	0.0	0.0
Data for curves:			
Grid1 curves:	UG1/IA		
1: UA [V]	250		
1: UG1 [V] starting at	-3		
1: UG2 [V]	100		
1: UG3 [V]	0		
2: UA [V]	188		
2: UG1 [V] starting at	-3		
2: UG2 [V]	75		
2: UG3 [V]	0		
3: UA [V]	125		
3: UG1 [V] starting at	-3		
3: UG2 [V]	50		
3: UG3 [V]	0		
Plate-Screen curves	UG2/IA		
1: UA [V] up to	250		
1: UG1 [V]	-0.5		
1: UG2 [V] up to	100		
1: UG3 [V]	0		
2: UA [V] up to	250		
2: UG1 [V]	-1		
2: UG2 [V] up to	100		
2: UG3 [V]	0		
3: UA [V] up to	250		
3: UG1 [V]	-2		
3: UG2 [V] up to	100		
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]	11		
measured plate current [mA]	13.802		
= percent of nominal	125		
Nominal screen grid current [mA]	4.2		
measured screen grid current [mA]	5.185		
= percent of nominal	123		
transconductance [mA/V]	5.24		
at grid voltage change (dUG1) [V]	0.6		
plate current [mA] at + 1/2 dUG1	15.459		
plate current [mA] at - 1/2 dUG1	12.317		
μ	2994		
D of plate in % (D = 1/μ)	0		
measured plate current [mA]	13.689		
at plate voltage	174.82		
D G2 [%]	3.75		
measured plate current [mA]	11.792		
at screen voltage	90.2		
Ri [KOhm]	554.4		
Ig [μA]	-0.0656		

base:Miniatur B7G



6 x 45° 1.82 φ
PC φ: 9.53 mm B7G



selected heating version:intern DC
measured heater voltage:6.27 V
measured heater current:297.3 mA (Ph=1.864 W)
Aufheizzeit: 120 s

Ig (system:1/2/3)[μA]:-0.0656 / 0 / 0
faktor vakuum: -0.00000480
Plate current variation:-3 [%], IgR: 13.397 mA, Ig|R: 13.809 mA

= 6CG6, W727, PM04, p104 russ, M8101, GL5749, CK5749, 6k2p russ, 6AB6W, 6AB6, 6k4p russ, 6BA6, 6F31,

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