6146B (8298A) - test protocol

20.01.2021 15:33:50
#180

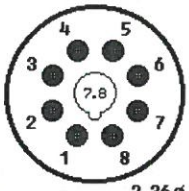
Pre-settings:
heater voltage:6.3 V, heater current:1.125 A, heater type:indirekt

system	1	2	3
type of tube system	Pentode	-	-
pinout			
Pin 1	K		
Pin 2	F1		
Pin 3	G2		
Pin 4	K		
Pin 5	G1		
Pin 6	K		
Pin 7	F2		
Pin 8	S		
Pin 9			
Pin 10 or ext. connecto	A		
absolute maximum rati			
UA [V]	750.0	0.0	0.0
UG2 [V]	250	0	0
IK [mA]	0.000	0.000	0.000
NA [W]	25.000	0.000	0.000
NG2 [W]	3.000	0.000	0.000
typical ratings:			
UA [V]	200.0	0.0	0.0
UG1 [V]	-29.50	0.00	0.00
UG2 [V]	200.0	0.0	0.0
UG3 [V]	0.0	0.0	0.0
IA [mA]	100.000	0.000	0.000
IG2 [mA]	0.000	0.000	0.000
S [mA/V]	7.00	0.00	0.00
µ	4.5	0.0	0.0
D [%]	0.0	0.0	0.0
Ri [kOhm]	0.0	0.0	0.0
Data for curves:			
Grid1 curves:	UG1/IA		
1: UA [V]	200		
1: UG1 [V] starting at	-88.5		
1: UG2 [V]	200		
1: UG3 [V]	0		
2: UA [V]	150		
2: UG1 [V] starting at	-88.5		
2: UG2 [V]	150		
2: UG3 [V]	0		
3: UA [V]	100		
2: UG1 [V] starting at	-88.5		
3: UG2 [V]	100		
3: UG3 [V]	0		
Plate-Screen curves	UG2/IA		
1: UA [V] up to	200		
1: UG1 [V]	-15		
1: UG2 [V] up to	200		
1: UG3 [V]	0		
2: UA [V] up to	200		
2: UG1 [V]	-29		
2: UG2 [V] up to	200		
2: UG3 [V]	0		
3: UA [V] up to	200		
3: UG1 [V]	-59		
3: UG2 [V] up to	200		
3: UG3 [V]	0		
f(UaPentode) start at[V			
AC-simulation, +V	0	0	0

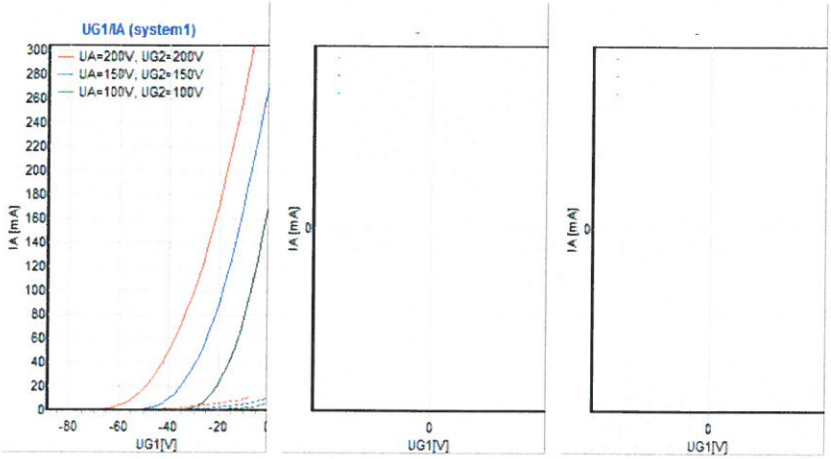
results:

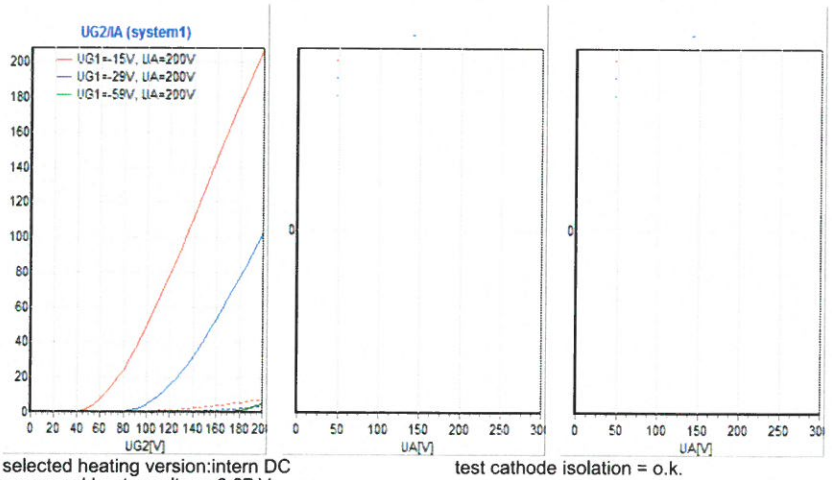
system	1	2	3
type of tube system	Pentode		
nominal plate current [mA]	100		
measured plate current [mA]	100.27		
= percent of nominal	100		
Nominal screen grid current [mA]			
measured screen current [mA]	4.094		
= percent of nominal			
transconductance [mA/V]	6		
at grid voltage change (dUg1) [V]	0.6		
plate current [mA] at + 1/2 dUG1	102.14		
plate current [mA] at - 1/2 dUG1	98.54		
µ	49.9		
D of plate in % (D = 1/µ)	2		
measured plate current [mA]	93.76		
at plate voltage	139.8		
D G2 [%]	21.97		
measured plate current [mA]	74.32		
at screen voltage	180		
Ri [KOhm]	9.1		
Ig [µA]	0.25		

base:Oktal K8A



8 x 45° 2.36ø
PCø: 17.5mm K8A





selected heating version:intern DC
measured heater voltage:6.27 V
measured heater current:1117.5 mA (Ph=7.007 W)
Aufheizzeit: 120 s

test cathode isolation = o.k.

Ig (system:1/2/3)[µA]:0.25 / 0 / 0
faktor vakuum: 0.00000250
Plate current variation:1.8 [%], IgR: 101.54 mA, Ig|R: 99.74 mA

= 6146B, ähnlich 6146A * S2001A - anderer Heizstrom