

4 VALVE DATA

PREFERRED TYPES

E OUTPUT PENTODES

EBL 21 Double diode output pentode

HEATER

V_h 6.3 V I_h 0.8 A Suitable for A.C. mains operation

CAPACITANCES

C_{a-g1}	<1.4	$\mu\mu F$
$C_{a/d-k}$	1.8	$\mu\mu F$
$C_{a/d-k}$	2.0	$\mu\mu F$
$C_{a/d-a+d}$	<0.15	$\mu\mu F$

OPERATING CONDITIONS

As Class "A" amplifier

V_a	250	250	V
V_{g2}	250	275	V
V_{g1}	-6.0	-6.2	V
I_a	36	44	mA
I_{g2}	4.5	5.8	mA
R_k	150	120	Ω
g_m	9.0	9.5	mA/V
μ_{g1-g2}	23	23	
r_a	50	50	K Ω
R_a	7	5.7	K Ω
P_{out}	4.5	5.5	W
D_{tot}	10	10	%
$V_{in(r,m,s)}$	4.2	4.5	V
$V_{in(r,m,s)} (P_{out}=50 \text{ mW})$	0.35	0.3	V

OPERATING CONDITIONS

As Class "AB₁" push-pull pair

V_a	300	V
V_{g2}	300	V
R_k	120	Ω
$I_{a(0)}$	2×30	mA
I_a (max. sig.)	2×36	mA
$I_{g2(0)}$	2×3.8	mA
I_{g2} (max. sig.)	2×6.5	mA
R_{a-a}	9	K Ω
$V_{in(r,m,s)}$	2×7.0	V
P_{out}	13.2	W
D_{tot}	1.8	%
$V_{in(r,m,s)} (P_{out}=50 \text{ mW})$	2×0.3	V

LIMITING VALUES

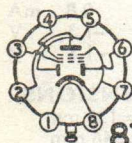
$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	11	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	300	V
p_{g2} max.	3.5	W
I_k max.	60	mA
R_{g1-k} max.	1.0	M Ω
V_{h-k} max.	50	V



VALVE DATA 4 PREFERRED TYPES OUTPUT PENTODES E

LIMITING VALUES (contd.)

EBL 21
(contd.)



V_{a-d} max.	200	V
V_{a-d} max.	200	V
I_{a-d} max.	0.8	mA
I_{a-d} max.	0.8	mA
V_{a-d} max. ($I_{a-d} = +0.3 \mu A$)	-1.3	V
V_{a-d} max. ($I_{a-d} = +0.3 \mu A$)	-1.3	V

BASE :
B8G

DIMENSIONS :
L=96 mm
D=29 mm

Double diode output pentode

EBL 31

HEATER

V_h 6.3 V I_h 1.2 A Suitable for A.C. mains operation

CAPACITANCES

$C_{a-d-a-d}$	<0.35	μF
C_{a-d-k}	3.0	μF
C_{a-d-k}	3.6	μF

OPERATING CONDITIONS

As Class "A" amplifier

V_a	250	V
V_{g2}	250	V
I_a	36	mA
R_k	150	Ω
V_{g1}	-6.0	V
I_{g2}	5.0	mA
g_m	9.5	mA/V
r_a	55	K Ω
R_a	7	K Ω
P_{out}	4.3	W
D_{tot}	10	%
$V_{in(r, m, s.)}$	3.6	V
$V_{in(r, m, s.)}$ ($P_{out} = 50$ mW)	0.35	V

LIMITING VALUES

$V_{a(b)}$	550	V
V_a max.	250	V
p_a max.	9	W
I_k max.	55	mA
$V_{g2(b)}$ max.	550	V
V_{g2} max.	250	V
p_{g2} max.	1.5	W
R_{g1-k} max.	1	M Ω
V_{h-k} max.	50	V

