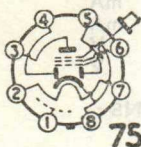


4 VALVE DATA PREFERRED TYPES E OUTPUT PENTODES

EBL 31 (contd.)

LIMITING VALUES (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 :
Octal

DIMENSIONS :

L=136 mm
D=46 mm

ECL 80

Triode-pentode primarily intended for use as combined line oscillator and frame output valve in television receivers

HEATER

V_h 6.3 V I_h 0.3 A Sultable for series or parallel operation

CAPACITANCES

	C_{gt-ap}	<0.02	μF
	C_{gt-g1}	<0.2	μF
	C_{at-ap}	<1.2	μF
	C_{at-g1}	<0.2	μF
Triode Section	C_{gt-k}	2.0	μF
	C_{a-k}	0.3	μF
	C_{a-gt}	0.9	μF
Pentode Section	C_{gt-h}	<0.05	μF
	C_{in}	4.5	μF
	C_{out}	5.0	μF
	C_{a-g1}	<0.2	μF
	C_{g1-h}	<0.25	μF

CHARACTERISTICS

Triode Section

V_a	100	V
V_{gt}	-2.3	V
I_a	4	mA
g_m	1.4	mA/V
r_a	12.5	K Ω
μ	17.5	

Pentode Section

V_a	170	200	V
V_{g2}	170	200	V
V_{g3}	0	0	
V_{g1}	-6.7	-8.0	V
I_a	15	17.5	mA
I_{g2}	2.8	3.3	mA
g_m	3.4	3.5	mA/V
r_a	0.15	0.15	M Ω
μ_{g1-g2}	14	14	



OPERATING CONDITIONS OF TRIODE SECTION

As A.F. voltage amplifier

ECL 80
(contd.)

V_b	170	200	V
R_a	0.22	0.22	M Ω
* R_{g1}	0.68	0.68	M Ω
V_{gt}	-3.5	-4.2	V
I_{at}	0.45	0.55	mA
V_{out}/V_{in}	11.5	11.5	
$V_{out(r.m.s.)}$ ($D_{tot}=5\%$)	20	24	V

*Grid resistance of following valve

OPERATING CONDITIONS OF PENTODE SECTION

As audio output valve

V_a	170	200	V
V_{g2}	170	200	V
V_{g3}	0	0	V
V_{g1}	-6.7	-8.0	V
$I_{a(0)}$	15	17.5	mA
$I_{g2(0)}$	2.8	3.3	mA
R_a	11	11	K Ω
$V_{in(r.m.s.)}$ ($P_{out}=50$ mW)	0.7	0.7	V
P_{out}	1.0	1.4	W
$V_{in(r.m.s.)}$	3.5	4.0	V
D_{tot}	10	10	%

LIMITING VALUES

Triode Section

$V_{a(b)}$ max.	550	V
V_a max.	200	V
p_a max.	1	W
I_k max.	6	mA
V_{gt} max. ($I_{gt}=+0.3$ μ A)	-1.3	V
R_{g1-k} max.	3	M Ω
V_{h-k} max.	150	V

Pentode Section

$V_{a(b)}$ max.	550	V
V_a max.	400	V
$V_{a(pk)}$ max.	1,200	V
p_a max.	3.5	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	250	V
p_{g2} max.	0.75	W
I_k max.	25	mA
V_{g1} max. ($I_{g1}=+0.3$ μ A)	-1.3	V
* R_{g1-k} max. ($I_k=20$ mA)	1	M Ω
† R_{g1-k} max. ($I_k=12$ mA)	2.2	M Ω
V_{h-k} max.	150	V

*As audio output valve

†As frame output valve



BASE:
B9A
(Noval)

DIMENSIONS:
L=67 mm
D=22.2 mm

