

EL84 (Cont.)

OUTPUT PENTODE

OPERATING CONDITIONS (As single valve class "A" amplifier)
Triode Connection (g_2 connected to a)

V_a	250	V
$I_{a(o)}$	34	mA
I_a (max. sig.)	36	mA
R_k	270	Ω
R_a	3.5	k Ω
P_{out}	1.9	W
V_{in} (r.m.s.)	6.7	V
D_{tot}	9.0	%

OPERATING CONDITIONS Two Valves in Class "AB" Push-pull

Pentode Connection

V_a	250	300	V
V_{g2}	250	300	V
* R_k	130	130	Ω
R_{a-a}	8.0	8.0	k Ω
$I_{a(o)}$	2 \times 31	2 \times 36	mA
I_a (max. sig.)	2 \times 37.5	2 \times 46	mA
$I_{g2(o)}$	2 \times 3.5	2 \times 4.0	mA
I_{g2} (max. sig.)	2 \times 7	52 \times 11	mA
$V_{in(g1-g1)}$ r.m.s.	16	20	V
P_{out}	11	17	W
D_{tot}	3.0	4.0	%

Triode Connection (g_2 connected to a)

V_a	250	300	V
$I_{a(o)}$	2 \times 20	2 \times 24	mA
I_a	2 \times 21.5	2 \times 26	mA
* R_k	270	270	Ω
R_{a-a}	10	10	k Ω
P_{out}	3.4	5.2	W
$V_{in(g1-g1)}$ r.m.s.	16.5	20	V
D_{tot}	2.5	2.5	%

*Common cathode bias resistor.

REPLACEMENT FOR: N709, 6BQ5—Direct.

OUTPUT PENTODE

HEATER

V_h	6.3	V
I_h	760	mA

LIMITING VALUES

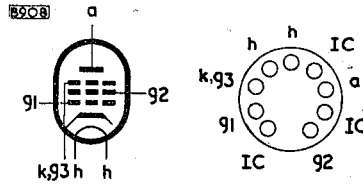
V_a max.	300	V
p_a max.	12	W
V_{g2} max.	300	V
p_{g2} max. (zero sig.)	2.0	W
p_{g2} max. (max. sig.)	4.0	W
I_k max.	65	mA
V_{h-k} max.	100	V

OPERATING CONDITIONS

(As single valve class "A" amplifier)

V_a	250	250	V
V_{g2}	250	250	V
R_a	5.2	4.5	k Ω
R_k	135	135	Ω
V_{g1}	-7.3	-7.3	V
I_a	48	48	mA
I_{g2}	5.5	5.5	mA
* P_{out}	5.7	5.7	W
V_{in} (r.m.s.)	4.3	4.4	V
D_{tot}	10	10	%
D_3	9.5	8.0	%
D_2	2.0	5.0	%

EL84



B9A

DIMENSIONS

Max. Overall Length	78.5	mm
Max. Seated Height	71.5	mm
Max. Diameter	22.2	mm

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
I_a	48	mA
I_{g2}	5.5	mA
V_{g1}	-7.3	V
g_m	11.3	mA/V
r_a	38	k Ω
μ_{g1-g2}	19	