

OUTPUT PENTODE

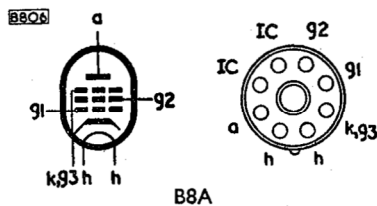
EL41

HEATER

V_h	6.3	V
I_h	700	mA

LIMITING VALUES

V_a max.	300	V
P_a max.	9.0	W
V_{g2} max.	300	V
P_{g2} (zero sig.) max.	1.4	W
P_{g2} (max. sig.) max.	3.3	W
I_k max.	55	mA
V_{h-k} max.	50	V



DIMENSIONS

Max. Overall Length	76	mm
Max. Seated Height	69	mm
Max. Diameter	22	mm

EL41 (Cont.)

OUTPUT PENTODE

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
I_a	36	mA
I_{g2}	5.2	mA
V_{g1}	-7.0	V
g_m	10	mA/V
r_a	40	k Ω
μ_{g1-g2}	22	

OPERATING CONDITIONS

(As single valve class "A" amplifier)

Triode Connection (g_2 connected to a)

V_a	250	V
R_k	250	Ω
R_a	3.5	k Ω
I_a	33	mA
P_{out}	1.55	W
$V_{in(r.m.s.)}$	6.0	V
D_{tot}	8.0	%

OPERATING CONDITIONS (As single valve class "A" amplifier)

Pentode Connection

V_a	250	V
V_{g2}	250	V
V_{g1}	-7.0	V
R_k	170	Ω
I_a	36	mA
I_{g2}	5.2	mA
R_a	7.0	k Ω
$V_{in(r.m.s.)}$	3.7	V
P_{out}	4.2	W
D_{tot}	10	%

OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

Pentode Connection

V_a	250	300	V
V_{g2}	250	300	V
$I_{a(0)}$	2×25	2×30	mA
I_a (max. sig.)	2×30	2×36	mA
$I_{g2(0)}$	2×3.5	2×4.0	mA
I_{g2} (max. sig.)	2×8.0	2×9.5	mA
* R_k	140	140	Ω
R_{a-a}	9.0	9.0	k Ω
P_{out}	9.0	13	W
$V_{in(g1-g1)r.m.s.}$	14	17	V
D_{tot}	2.5	2.5	%

OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

Triode Connection (g_2 connected to a)

V_a	250	300	V
$I_{a(0)}$	2×27.5	2×33	mA
* R_k	150	150	Ω
R_{a-a}	10	10	k Ω
P_{out}	2.5	4.0	W
$V_{in(g1-g1)r.m.s.}$	11	13	V
D_{tot}	1.0	1.0	%

*Common cathode bias resistor

REPLACEMENT FOR: N150, 67PT—Direct.