

ECH41

TRIODE HEXODE (OBSOLETE)

HEATER

V_h	6.3	V
I_h	225	mA

DIMENSIONS

Max. Overall Length	60	mm
Max. Seated Height	54	mm
Max. Diameter	22	mm

CAPACITANCES

C_{gt-g1}	<0.35	pF
C_{gt-ah}	<0.2	pF

Hexode Section

$C_{g1-h+k+g2+g4+skirt}$	3.4	pF
$C_{a-h+k+g2+g4+skirt}$	6.0	pF
C_{a-g1}	<0.1	pF
C_{g1-h}	<0.15	pF

Triode Section

$C_{gt-h+k+g2+g4+skirt}$	4.8	pF
$C_{at-h+k+g2+g4+skirt}$	1.5	pF
C_{at-gt}	1.2	pF

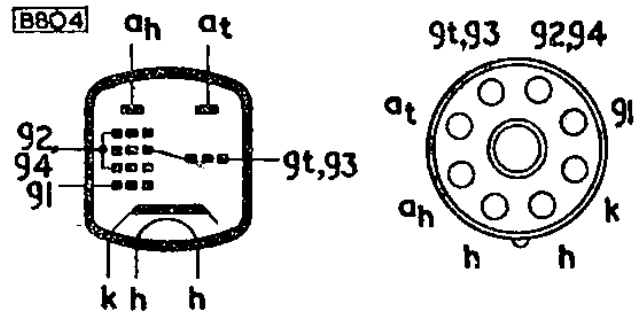
LIMITING VALUES

Hexode

V_a max.	300	V
V_{g2+g4} max.	125	V
P_a max.	800	mW
P_{g2+g4} max.	300	mW
I_k max.	7.0	mA
V_{h-k} max.	100	V

Triode

V_a max.	175	V
P_a max.	900	mW
I_k max.	5.5	mA



B8A

OPERATING CONDITIONS AS A FREQUENCY CHANGER (with screen grid fed from a potentiometer—consisting of R_1 and R_2)

Hexode Section

$V_a = V_b$	250	V
R_1	33	k Ω
R_2	47	k Ω
R_k	200	Ω
R_{gt+g3}	22	k Ω
V_{g1}	-2.0	V
I_{gt+g3}	350	μ A
V_{g2+g4}	105	V
I_a	3.0	mA
I_{g2+g4}	2.2	mA
g_c	500	μ A/V
r_a	2.0	M Ω
R_{eq}	170	k Ω
$\dagger V_{g1}$	-28	V

\dagger For 100 : 1 reduction in g_c .

Triode Section

V_b	250	V
R_a	33	k Ω
I_a	4.9	mA
R_{gt+g3}	22	k Ω
I_{gt+g3}	350	μ A
V_{osc}	8.0	V
g_m (effective)	550	μ A

REPLACED BY: ECH42—Screen grid resistors may require alteration. Oscillator grid resistor should be increased to 47k Ω . Receiver may require realigning.