

Double triode primarily intended for use in f.m. receivers as an r.f. amplifier and self-oscillating additive mixer.

HEATER

V_h	6.3	V
I_h	435	mA

CAPACITANCES

$c_{a'-g'}$	1.5	pF
$c_{a'-k'}$	0.17	pF
$c_{a'-k'+h+s}$	1.2	pF
$*c_{a'-k'+h+s}$	1.8	pF
$c_{g'-k'+h+s}$	3.1	pF
$c_{a''-g''}$	1.5	pF
$c_{a''-k''}$	0.18	pF
$c_{a''-k''+h+s}$	1.2	pF
$*c_{a''-k''+h+s}$	1.8	pF
$c_{g''-k''+h+s}$	3.1	pF
$c_{a'-g''}$	<8	mpF
$c_{a'-k''}$	<8	mpF
$c_{g'-k''}$	<3	mpF
$c_{a'-a''}$	<40	mpF
$*c_{a'-a''}$	<8	mpF
$c_{a''-g'}$	<8	mpF
$c_{a''-k'}$	<8	mpF
$c_{g''-k'}$	<3	mpF
$c_{g'-g''}$	<3	mpF

*Measured with an external shield

CHARACTERISTICS (each section)

V_a	250	V
I_a	10	mA
V_g	-2.7	V ←
g_m	6.1	mA/V ←
μ	55	←
r_a	9.0	kΩ ←

OPERATING CONDITIONS AS R.F. AMPLIFIER

V_b	250	V
V_a	230	V
R_a	1.8	k Ω
I_a	10.8	mA $\leftarrow$
R_k	200	Ω
g_m	6.8	mA/V $\leftarrow$
r_a	8.3	k Ω $\leftarrow$
r_{g1} ($f = 100\text{Mc/s}$)	4.7	k Ω $\leftarrow$
R_{eq}	580	Ω $\leftarrow$

OPERATING CONDITIONS AS SELF-OSCILLATING FREQUENCY CHANGER

V_b	250	V
R_a	12	k Ω
R_{g-k}	1.0	M Ω
I_a	6.0	mA $\leftarrow$
V_{osc} (r.m.s.)	3.0	V
g_c	3.0	mA/V $\leftarrow$
r_a	18	k Ω $\leftarrow$

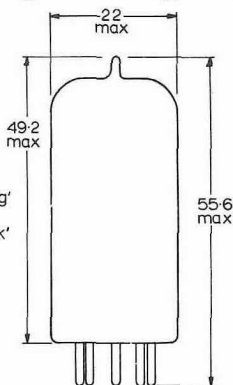
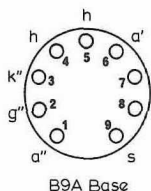
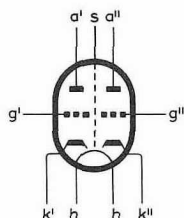
RATINGS (ABSOLUTE MAXIMUM SYSTEM)

(each section unless otherwise specified)

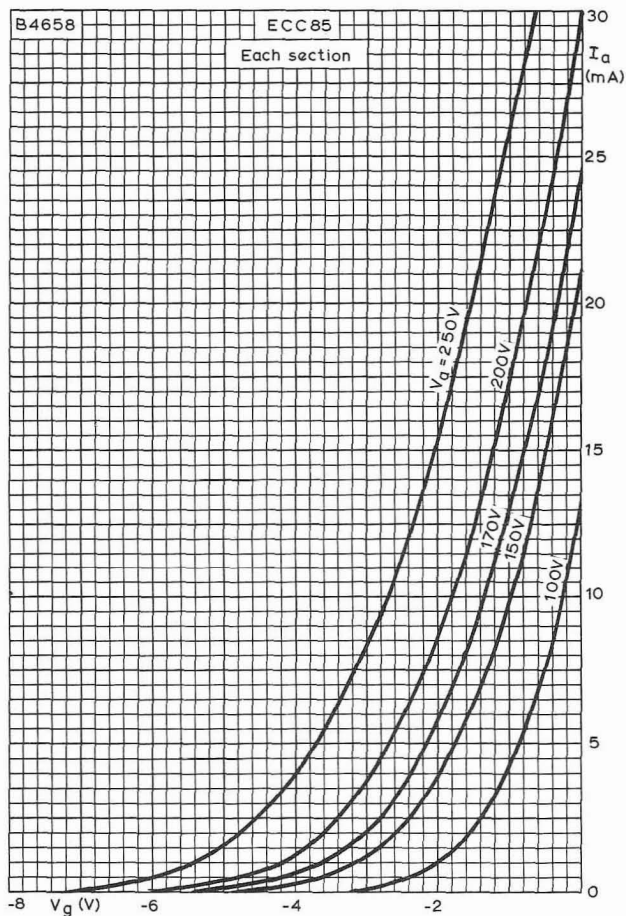
$V_{a(b)} \text{ max.}$	550	V
$V_a \text{ max.}$	300	V
$p_a \text{ max.}$	2.5	W
$p_{a'} + p_{a''} \text{ max.}$	4.5	W
$I_k \text{ max.}$	15	mA
$-V_g \text{ max.}$	100	V
$R_{g-k} \text{ max.}$	1.0	M Ω
$*V_{h-k} \text{ max.}$	90	V
$R_{h-k} \text{ max.}$	20	k Ω

*When operating as an oscillator no r.f. voltage should be applied between $\leftarrow$ heater and cathode.

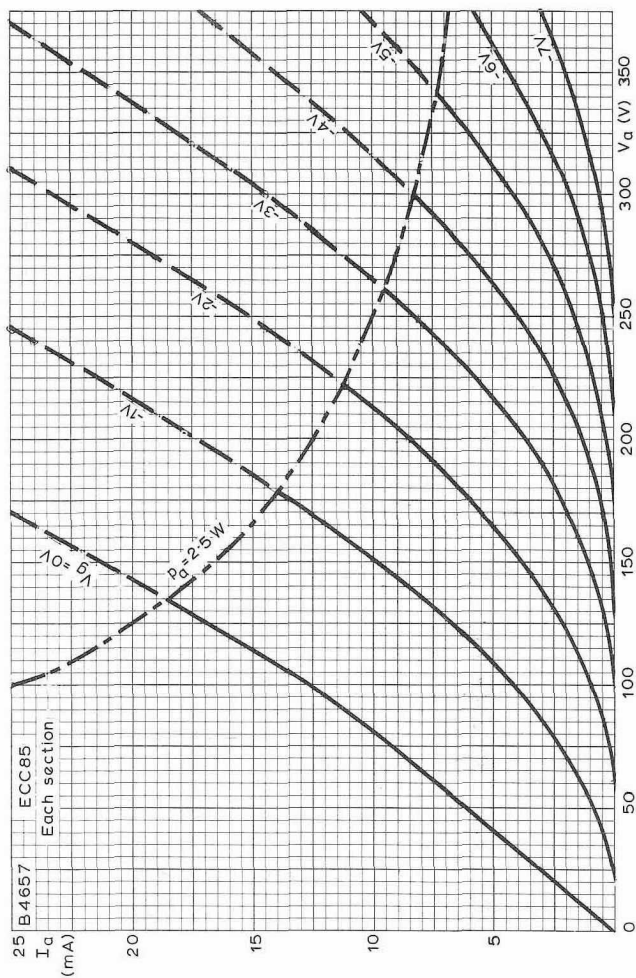
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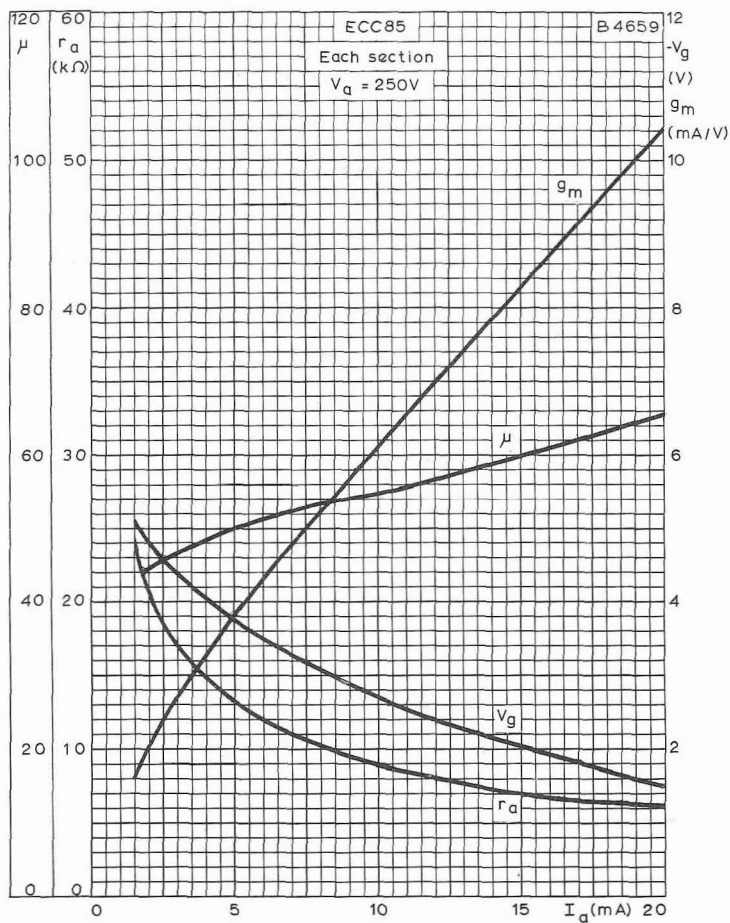
All dimensions in mm



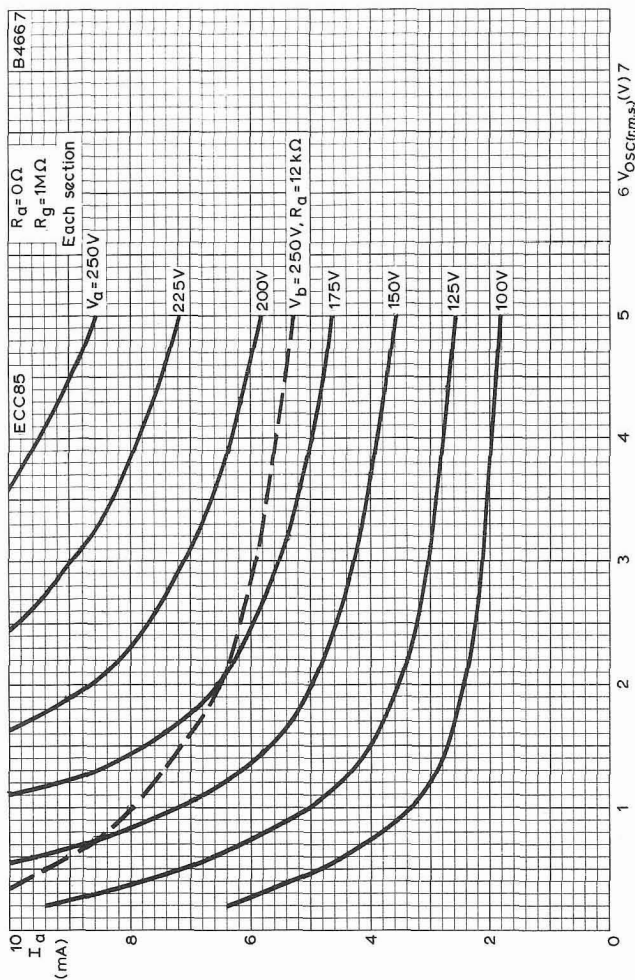
ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE
WITH ANODE VOLTAGE AS PARAMETER



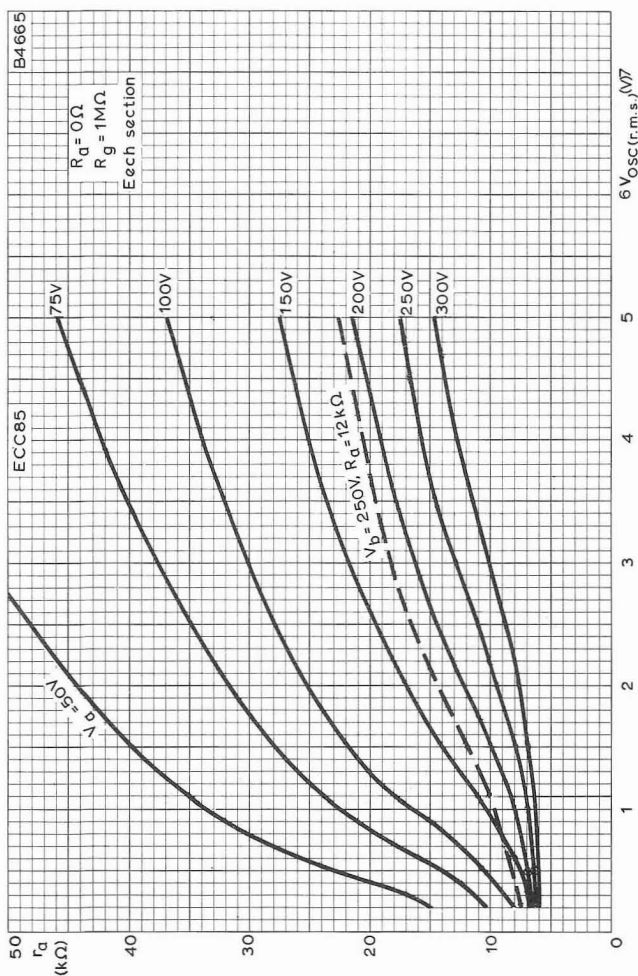
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH GRID VOLTAGE AS PARAMETER



MUTUAL CONDUCTANCE, ANODE IMPEDANCE, AMPLIFICATION FACTOR
AND GRID VOLTAGE PLOTTED AGAINST CURRENT. $V_a = 250V$



ANODE CURRENT PLOTTED AGAINST OSCILLATOR VOLTAGE
 WITH ANODE VOLTAGE AS PARAMETER



ANODE IMPEDANCE PLOTTED AGAINST OSCILLATOR VOLTAGE
WITH ANODE VOLTAGE AS PARAMETER