

DOUBLE TRIODE

ECC81

Double triode primarily intended for use as a frequency changer or r.f. amplifier at frequencies up to 300Mc/s.

HEATER

Suitable for series or parallel operation, a.c. or d.c.

The heater is centre-tapped and the two sections may be operated in series or in parallel with one another.

Series V_h applied between pins 4 and 5
 Parallel V_h applied between pin 9 and pins 4 and 5 connected together

| | Series | Parallel | V |
|-------|--------|----------|----|
| V_h | 12.6 | 6.3 | |
| I_h | 150 | 300 | mA |

CAPACITANCES

| | | |
|----------------|---------|----|
| * C_{a-g} | 1.6 | pF |
| * $C_{i\eta}$ | 2.3 | pF |
| $C_{a-k'+h}$ | 0.45 | pF |
| $C_{a''-k'+h}$ | 0.35 | pF |
| * C_{a-k} | 0.2 | pF |
| * C_{h-k} | 2.5 | pF |
| * C_{k-g+h} | 4.7 | pF |
| $C_{a-g'+h}$ | 1.9 | pF |
| $C_{a''-g'+h}$ | 1.8 | pF |
| $C_{a-g''+h}$ | < 0.4 | pF |
| $C_{a-h''}$ | < 0.17 | pF |
| C_{g-h} | < 0.005 | pF |
| $C_{g'-g''}$ | < 0.07 | pF |
| $C_{a-g'}$ | < 0.07 | pF |
| $C_{a''-g'}$ | < 0.04 | pF |

*Each section

CHARACTERISTICS (each section)

| | 100 | 170 | 200 | 250 | V |
|-------------|------|------|------|------|------------|
| V_a | 100 | 170 | 200 | 250 | |
| I_b | 3.0 | 8.5 | 11.5 | 10 | mA |
| V_g | -1.0 | -1.0 | -1.0 | -2.0 | V |
| g_m | 3.75 | 5.9 | 6.7 | 5.5 | mA/V |
| μ | 62 | 66 | 70 | 60 | |
| r_a | 16.5 | 11 | 10.5 | 11 | k Ω |
| * r_{g-k} | 21 | 16 | 14 | 25 | k Ω |

*Measured at $f=50\text{Mc/s}$

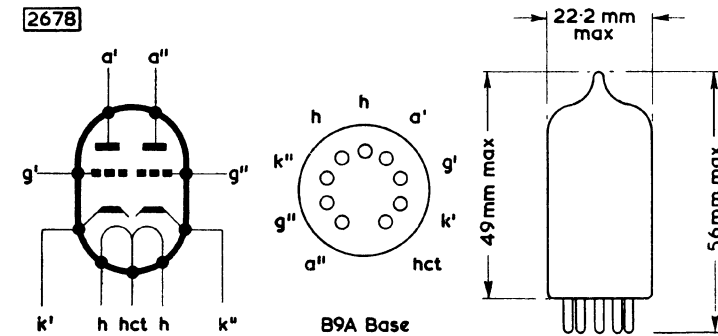
LIMITING VALUES (each section)

| | | |
|-----------------------------------|------|------------|
| $V_{a(b)}$ max. | 550 | V |
| V_a max. | 300 | V |
| p_a max. | 2.5 | W |
| I_k max. | 15 | mA |
| $-V_g$ max. | 50 | V |
| V_g ($I_g = +0.3\mu\text{A}$) | -1.3 | V |
| R_{g-k} max. (self-bias) | 1.0 | M Ω |
| V_{h-k} max. | 150 | V |
| R_{h-k} max. | 20 | k Ω |

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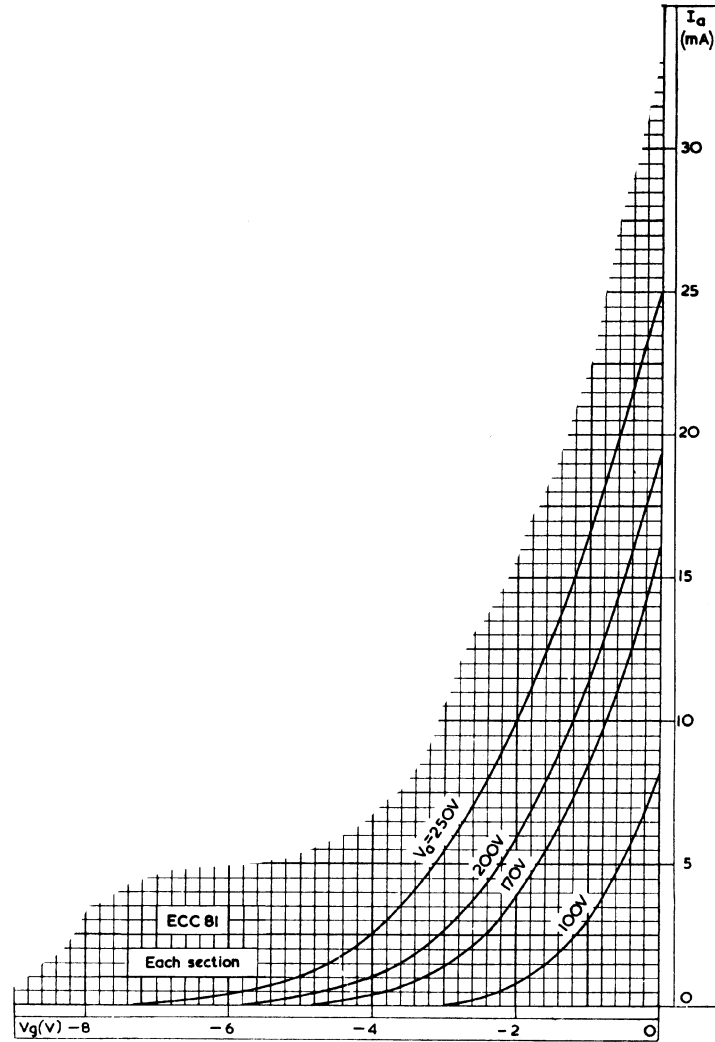
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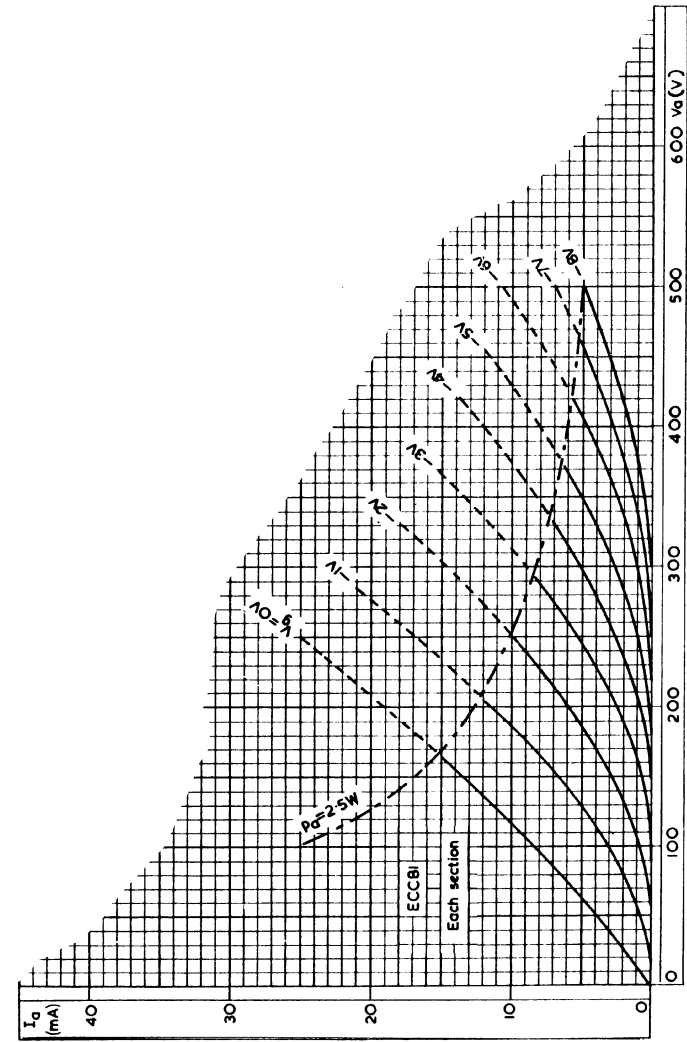
ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE, WITH ANODE VOLTAGE AS PARAMETER (EACH SECTION)



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