

DOUBLE TRIODE for use as R.F. amplifier and self-oscillating mixer in carradio sets. The tube can be directly operated from a storage battery

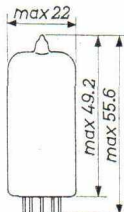
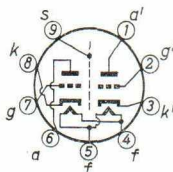
HEATING

Indirect by A.C. or D.C.; parallel supply

Heater voltage $V_f = 6.3 \text{ V}$

Heater current $I_f = 330 \text{ mA}$

Dimensions in mm



Base: NOVAL

CAPACITANCES

Grid to all other elements
except anode

$$C_g = C_{g'} = 3.0 \text{ pF}$$

Anode to all other elements
except grid

$$C_a = C_{a'} = 1.8 \text{ pF}$$

Anode to grid

$$C_{ag} = C_{a'g'} = 1.3 \text{ pF}$$

Anode to anode of other section

$$C_{aa'} < 0.05 \text{ pF}$$

Grid to grid of other section

$$C_{gg'} < 0.005 \text{ pF}$$

Anode to grid of other section

$$C_{ag'} < 0.005 \text{ pF}$$

$$C_{a'g} < 0.005 \text{ pF}$$

TYPICAL CHARACTERISTICS (each triode)

Anode voltage

$$V_a = 6.3 \text{ V}$$

Anode current

$$I_a = 0.9 \text{ mA}$$

Grid voltage

$$V_g = -0.4 \text{ V}$$

Mutual conductance

$$S = 2.6 \text{ mA/V}$$

Amplification factor

$$\mu = 14$$

OPERATING CHARACTERISTICS for use as R.F. amplifier (each triode)

Anode voltage	$V_a = 6.3$	12.6	25 V
Grid supply voltage	$V_{bg} = 0$	0	0 V
Grid resistor	$R_g = 100$	100	100 k Ω
Anode current	$I_a = 0.9$	2.5	7.5 mA
Mutual conductance	$S = 2.6$	4.6	7.8 mA/V
Internal resistance	$R_i = 5$	3.4	2.1 k Ω
Equivalent noise resistance	$R_{eq} = 1$	-	- k Ω

OPERATING CHARACTERISTICS for use as self-oscillating mixer (each triode)

Anode supply voltage	$V_{ba} = 6.3$	12.6	25 V
Anode resistor	$R_a = 500$	500	500 Ω
Grid resistor	$R_g = 220$	220	220 k Ω
Oscillator voltage	$V_{osc} = 0.7$	1.0	1.5 V(RMS)
Anode current	$I_a = 0.4$	1.0	2.6 mA
Conversion conductance	$S_c = 0.8$	1.3	2.0 mA/V
Internal resistance	$R_i = 11$	8	5.3 k Ω

LIMITING VALUES (Design centre limits; each triode)

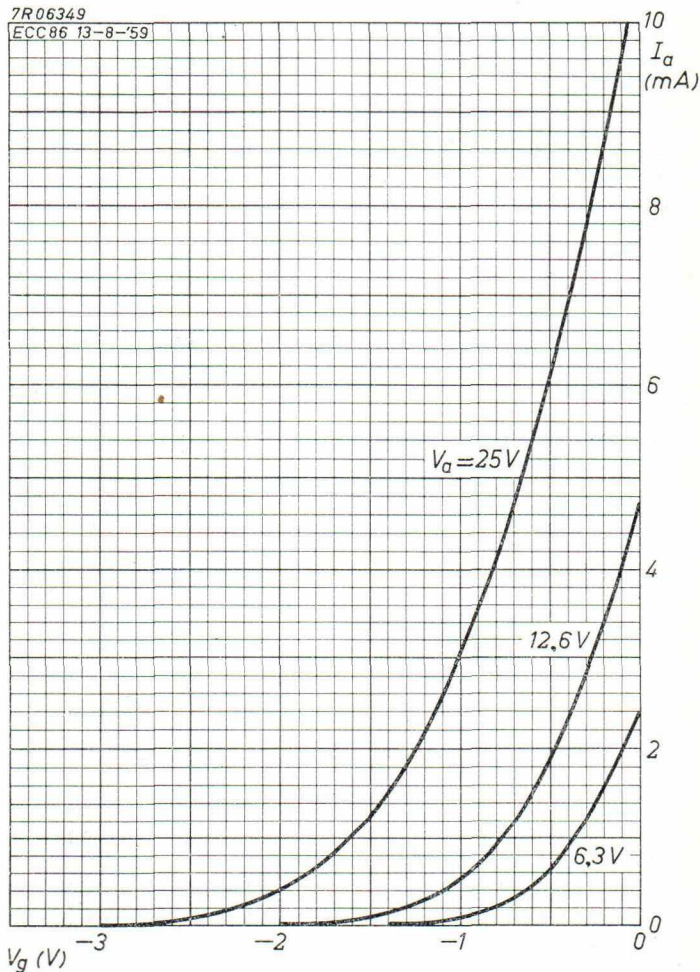
Anode voltage	$V_a = \text{max.}$	30 V
Anode dissipation	$W_a = \text{max.}$	0.6 W
Grid circuit resistance	$R_g = \text{max.}$	1 M Ω
Cathode current	$I_k = \text{max.}$	20 mA
Voltage between heater and cathode	$V_{kf} = \text{max.}$	30 V
Circuit resistance between heater and cathode	$R_{kf} = \text{max.}$	20 k Ω

PHILIPS

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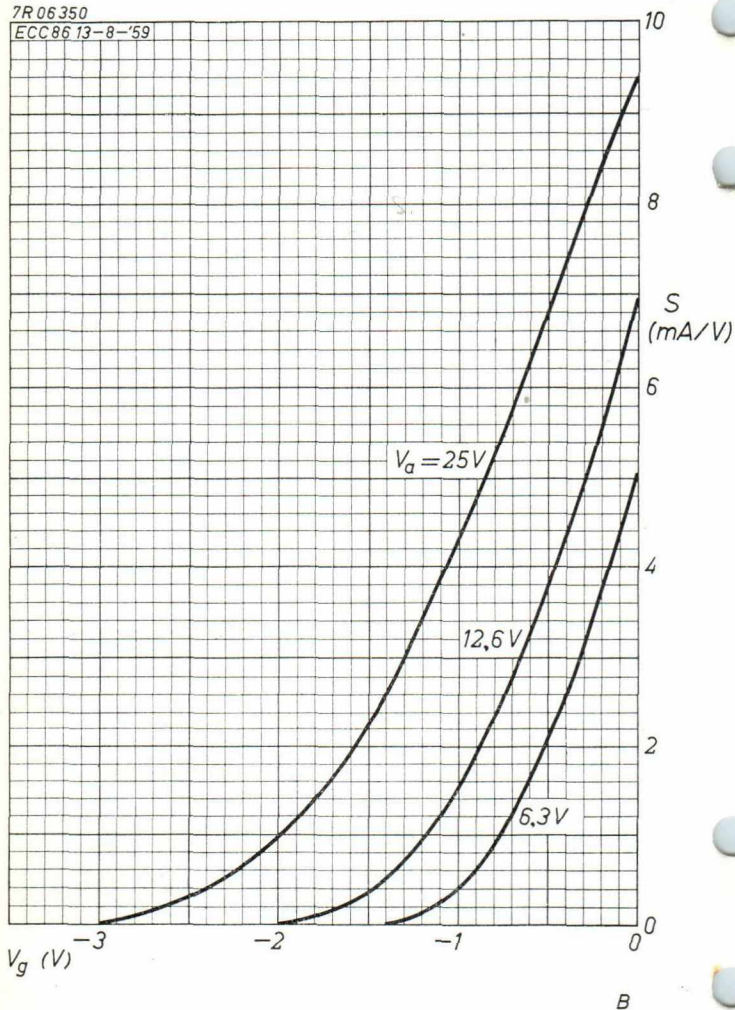
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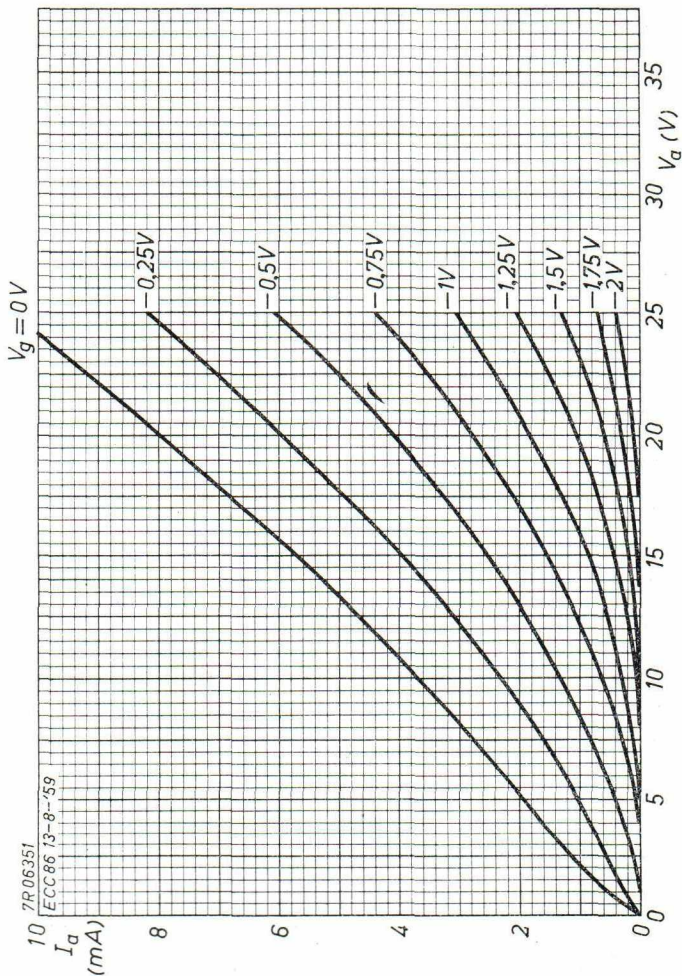
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