

TUNING INDICATOR

Tuning indicator tube.

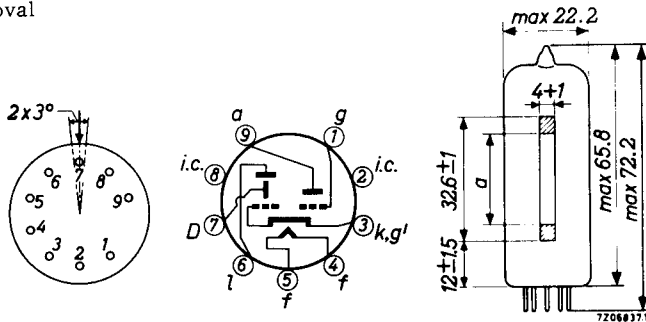
HEATING: Indirect by A.C. or D.C.; series or parallel supply

Heater voltage	V_f	6.3 V
Heater current	I_f	300 mA

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Noval



The arrow near pin 7 indicates the viewing direction.

OPERATING CHARACTERISTICS (D connected to a)

Supply voltage	V_b	250	V
Luminescent screen voltage	V_l	250	V
Anode and deflection electrode resistor	$R_{a,D}$	100	$k\Omega$
Grid resistor	R_g	3	$M\Omega$
Grid supply voltage	V_{bg}	0 -10 -15	V
Anode and deflection electrode current	I_{a+D}	2.0 0.5 0.2	mA
Luminescent screen current	I_l	1.0 1.8 2.0	mA
Shadow length	a	21 0 -1.5	mm ¹⁾

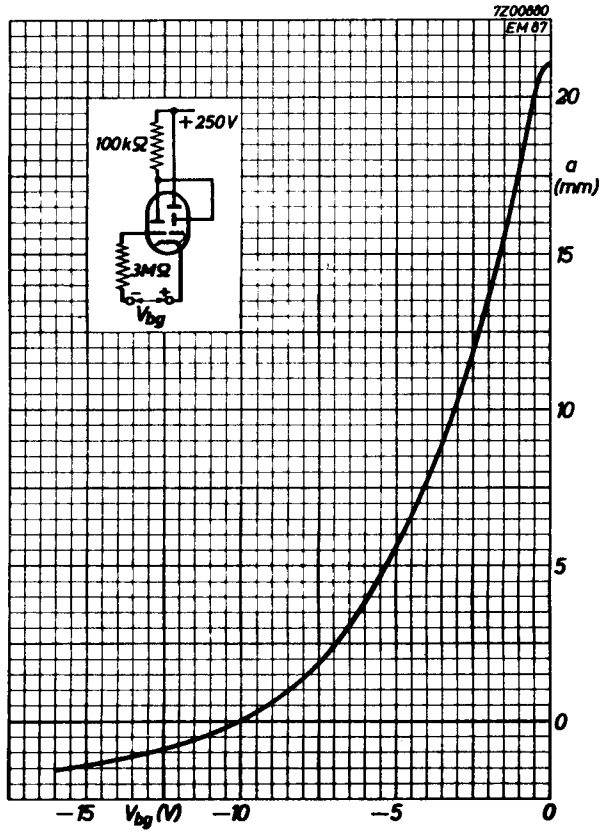
1) A negative value of "a" means overlapping:

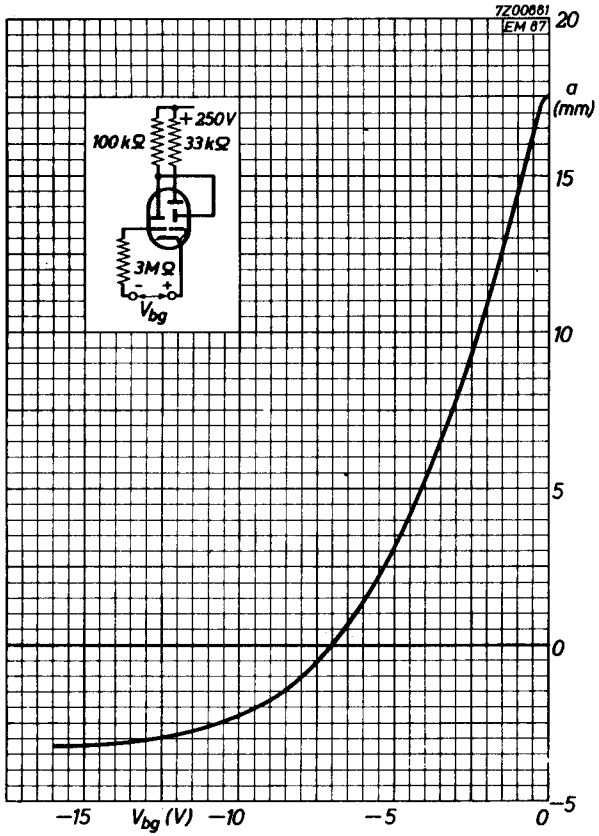
The grid bias for a = 0 is reduced by decreasing V_l .

The measure of overlapping at $V_g = -15$ V will then increase (see page 4).

LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a_0}	max. 550 V
	V_a	max. 300 V
Anode dissipation	W_a	max. 0.6 W
Deflection electrode voltage	V_{D_0}	max. 550 V
	V_D	max. 300 V
Luminescent screen voltage	V_{ℓ_0}	max. 550 V
	V_{ℓ}	max. 300 V
	V_{ℓ}	min. 170 V
Grid resistor	R_g	max. 3 M Ω
Cathode current	I_k	max. 5 mA
Cathode to heater voltage	V_{kf}	max. 250 V
Bulb temperature	t_{bulb}	max. 120 °C





PHILIPS

Data handbook



Electronic
components
and materials

EM87

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