

Frame-grid triode for use as grounded-grid amplifier or self-oscillating mixer in Bands IV and V.

HEATER

I_h	300	mA
V_h	4.0	V ←

CAPACITANCES

Unshielded

c_{a-g}	2.2	pF
c_{a-k}	240	mpF
c_{a-k+h}	350	mpF
c_{a-g+h}	2.3	pF
c_{g-k}	3.5	pF
$c_{g-k} (I_a = 12\text{mA})$	5.6	pF
c_{g-k+h}	3.8	pF
c_{g-h}	300	mpF
c_{k-g+h}	6.3	pF

Shielded

$c_{h+k-g+s}$	4.1	pF
c_{a-g+s}	3.3	pF
c_{a-k+h}	300	mpF

CHARACTERISTICS

V_a	175	V
V_g	-1.5	V
I_a	12	mA
g_m	14	mA/V
r_a	4.85	k Ω
μ	68	
R_{eq}	230	Ω

OPERATING CONDITIONS

As grounded-grid amplifier

V_a	175	V
I_a	12	mA
R_k	125	Ω
g_m	14	mA/V

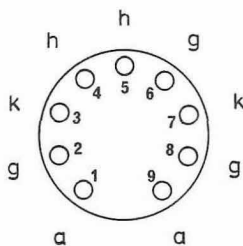
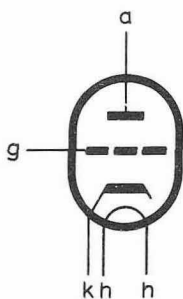
As self-oscillating mixer

V_a (b)	220	V
R_a	5.6	k Ω
R_g	47	k Ω
I_a	12	mA
I_g	50	μ A
v_{osc} (r.m.s.)	2.5	V
g_c	5.5	mA/V

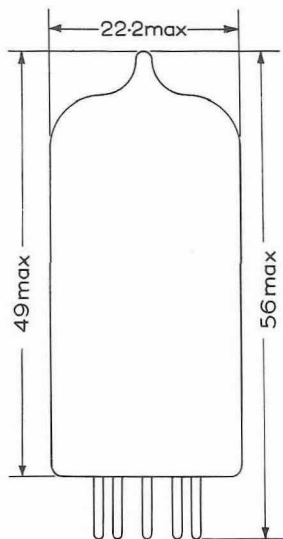
DESIGN CENTRE RATINGS

V_a (b) max.	550	V
V_a max.	220	V
p_a max.	2.2	W
I_k max.	20	mA
$-V_g$ max.	50	V
R_{g-k} max.	1.0	M Ω
V_{h-k} max.	100	V

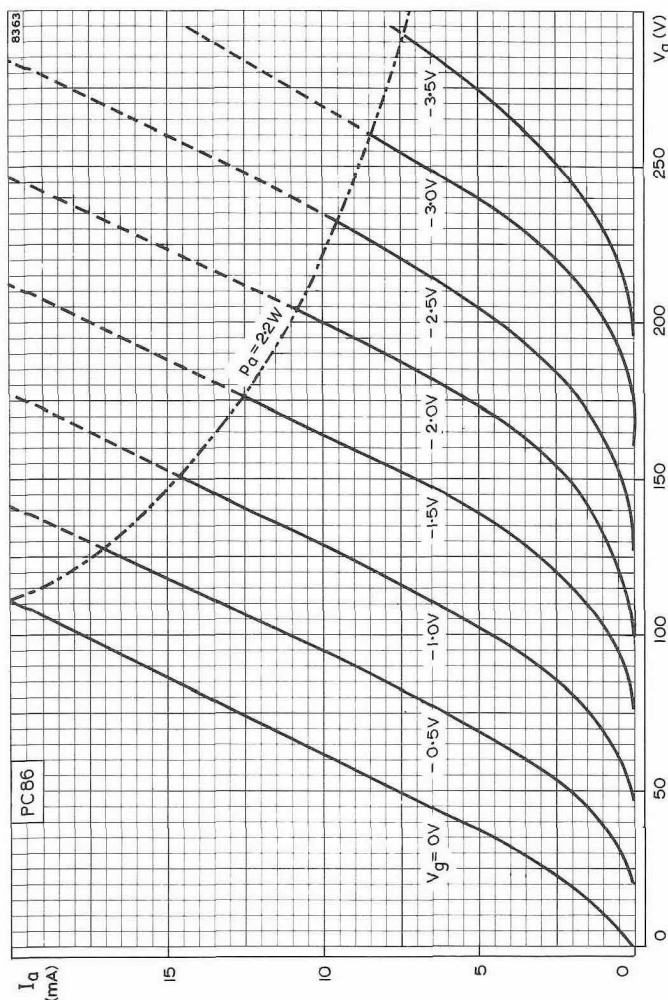
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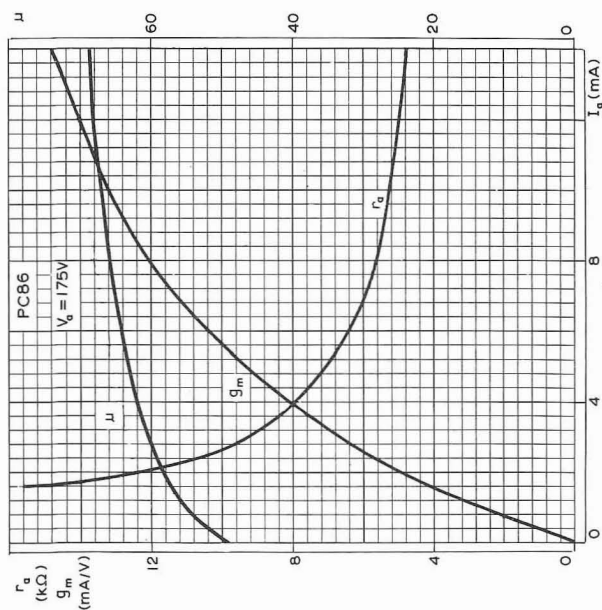
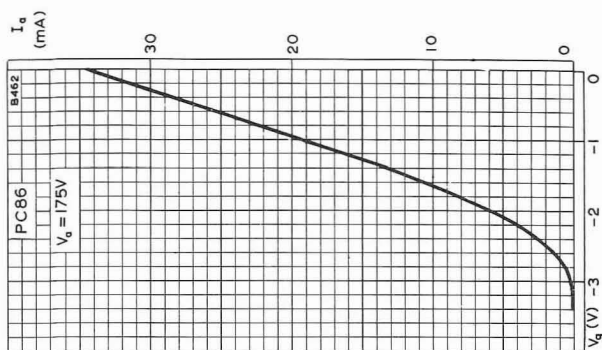
B9A Base



All dimensions in mm



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER.



ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE. $V_a = 175V$
 MUTUAL CONDUCTANCE, AMPLIFICATION FACTOR AND ANODE IMPEDANCE
 PLOTTED AGAINST ANODE CURRENT. $V_a = 175V$