

DOUBLE TRIODE

ECC32

Double triode with separate cathodes for use as a paraphase A.F. amplifier and in phase inverters, multi-vibrators, etc.

HEATER

V_h	6.3	V
I_h	0.95	A

CAPACITANCES

c_{a-a}	0.8	μF
c_{a-g} (each section)	4.3	μF
c_{g-k} (each section)	4.3	μF
c_{a-k} (each section)	2.0	μF

CHARACTERISTICS (each section)

V_a	250	V
V_g	-4.6	V
I_a	6.0	mA
S_m	2.3	mA/V
μ	32	
r_a	14,000	ohms

OPERATING CONDITIONS AS RESISTANCE-CAPACITY-COUPLED AMPLIFIER

V_b (V)	R_a (ohms)	I_a (mA)	R_k (ohms)	$\frac{V_{out}}{V_{in}}$	V_{out}^* (V)	D_{tot} (%)	R_{g1}^{**} (ohms)
400	47,000	3.9	1,200	21	67	3.7	150,000
350	47,000	3.4	1,200	20.5	57	3.6	150,000
300	47,000	2.9	1,200	20.0	48	3.5	150,000
250	47,000	2.4	1,200	19.5	37	3.4	150,000
200	47,000	1.9	1,200	19.5	26	3.2	150,000
400	100,000	2.1	2,700	25	81	3.0	330,000
350	100,000	1.8	2,200	25	69	2.9	330,000
300	100,000	1.6	2,200	24.5	54	2.8	330,000
250	100,000	1.3	2,200	24.5	44	2.6	330,000
200	100,000	1.05	2,200	24.0	32	2.4	330,000
400	220,000	1.1	3,900	27.5	81	2.3	680,000
350	220,000	0.95	3,900	27.5	68	2.2	680,000
300	220,000	0.85	3,900	27.0	56	2.2	680,000
250	220,000	0.7	3,900	27.0	45	2.1	680,000
200	220,000	0.55	3,900	26.5	34	2.0	680,000

* V_{out} = Output voltage at start of I_{g1} or at $D_{tot} = 10\%$.

** R_{g1} = Grid resistance of following valve.



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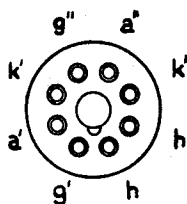
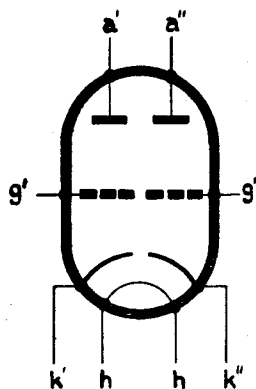
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LIMITING VALUES

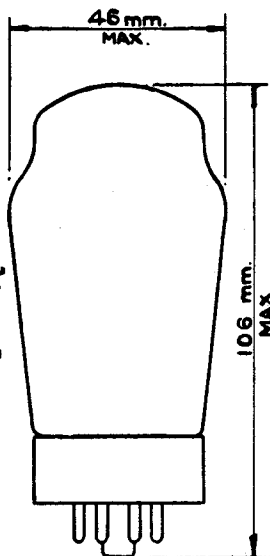
V_a max.	300	V
w_a max.	5	W
I_k max.	50	mA
R_{g1} max.	1.5 M.	ohms
V_{h-k} max.	50	V
R_{h-k} max.	20,000	ohms

DIMENSIONS

ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



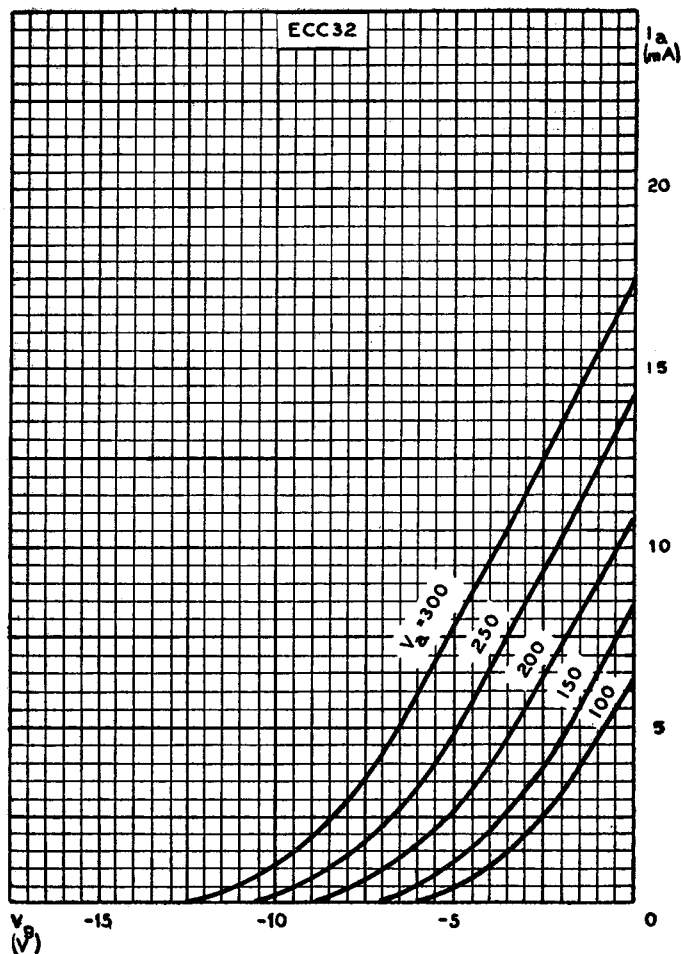
OCTAL BASE



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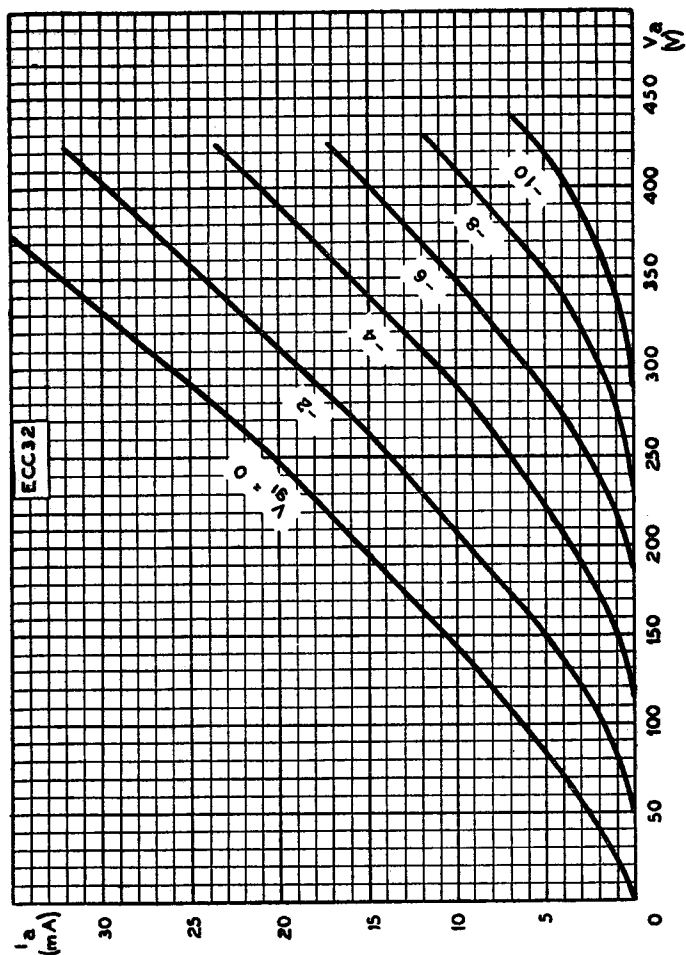


ANODE CURRENT PLOTTED AGAINST CONTROL GRID VOLTAGE

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ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

