



ECC83 is A.F. Double Triode

Quick reference data

- Anode current I_a=1,2mA
- Transcoductance S=1,6mA/V
- Amplification μ =100

Heating

Heating is indirect by AC od DC, with serial or parallel supply.

Heater voltage	$V_{\rm f}$	6,3	12,6	(V)
Heater current	I_{f}	300	150	(mA)
pins		9-(4+5)	4-5	

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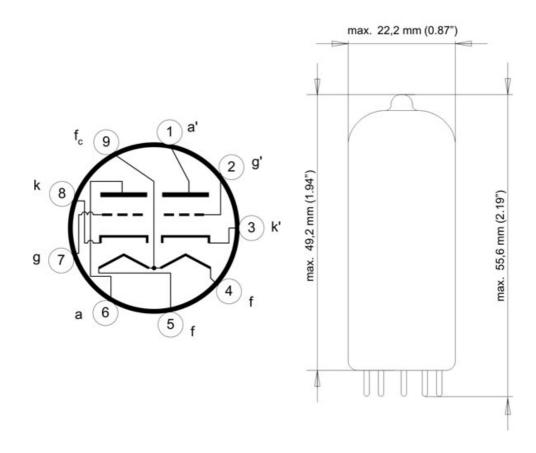
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Dimensions and connections

Base: Noval



Typical characteristics and operating conditions

Anode voltage	Va	100	250	(V)
Grid voltage	V_{g}	-1	-2	(V)
Anode current	I_a	0,5	1,2	(mA)
Transconductance	S	1,25	1,6	(mA/V)
Amplification	μ	100	100	
Internal resistance	R _i	80	62,5	$(k\Omega)$

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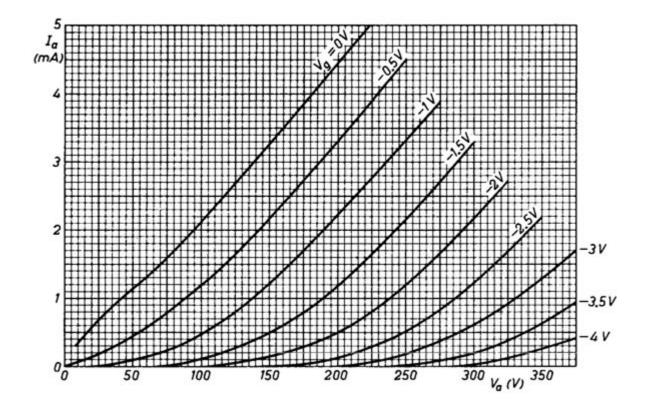
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Limiting - maximal values (design center rating system)

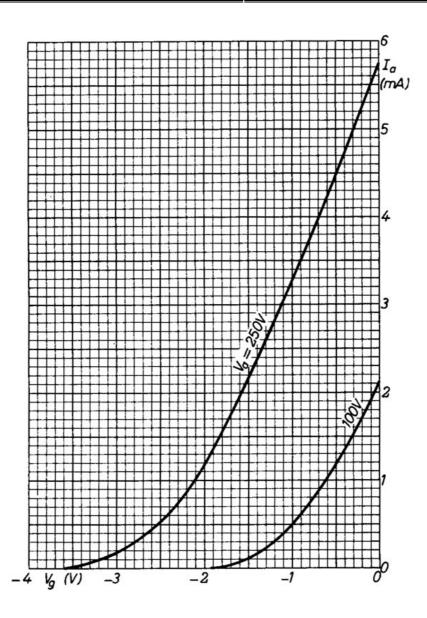
Anode voltage	V _{ao}	550	(V)	
mode voltage	Va	300	(*)	
Anode dissipation	Wa	1	(W)	
Cathode current	I_k	8	(mA)	
Grid voltage	V_{g}	-50	(V)	
Grid resistor (automatic bias)	R _g	2	(ΜΩ)	
Cathode to heater voltage	V_{kf}	180	(V)	
Cathode to heater circuit resistance in phase splitting circuits	R_{kf}	150	(kΩ)	



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Application note:

This tube can be used without precautions against microphony in equipment which is characterized by $V_i \geq 10 \text{mV}$ for an output of 50 mW (or $V_i \geq 100 \text{mV}$ for 5W output), provided that average acceleration of the tube is not greater than indicated in the Section "Microphonic effect" from the "Application directions". In this case the disturbance level for hum and noise will be better than -60dB when the center tap of the heater has been grounded, $R_g \leq 0.5 \text{M}\Omega$ and R_k is sufficiently decoupled.

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