

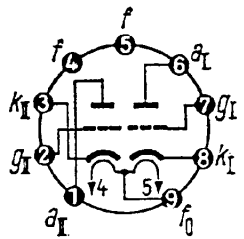
ECC 82

12 AU 7

NF-Doppeltriode

Verwendung als
NF-Verstärker,
Phasenumkehr-
Synchronisations-
Trennröhre, Multivibrator
und Sperrschwinger

AF Twin Triode
AF Amplifier



Noval

Kolben Nr. 7

Bulb No. 7

Allgemeine Daten General Data	Kenn- und Betriebsdaten Characteristics and Typical Operation	Grenzdaten Maximum Ratings																																																		
Heizung / Heating $U_f = 6,3 \text{ V}$ $I_f = 0,3 \text{ A}$ oder $U_f = 12,6 \text{ V}$ $I_f = 0,15 \text{ A}$ indirekt/indirect Kapazitäten Capacitances $C_{e1gII} = 1,8 \text{ pF}$ $C_{a1gII} = 0,25 \text{ pF}$ $C_{aIIgII} = 1,5 \text{ pF}$ $C_{gIIgII} < 135 \text{ mpF}$ $C_{gIIgII} < 10 \text{ pF}$ $C_{aIIgI} < 60 \text{ mpF}$ $C_{e1gI} = 1,8 \text{ pF}$ $C_{a1gI} = 0,37 \text{ pF}$ $C_{aIgI} = 1,5 \text{ pF}$ $C_{gIgf} < 135 \text{ mpF}$ $C_{aIaII} < 1,1 \text{ pF}$ $C_{aIgII} < 110 \text{ mpF}$	Kenn daten / Characteristics je System / per section $U_a = 250 \text{ V}$ $U_g = -8,5 \text{ V}$ $I_a = 10,5 \text{ mA}$ $S = 2,2 \text{ mA/V}$ $\mu = 17$ $R_t = 7,7 \text{ k}\Omega$ Betriebsdaten / Typical Operation NF-Verstärker / AF Amplifier <table border="1"> <tr> <td>$U_b =$</td> <td>150</td> <td>200</td> <td>250</td> <td>300 V</td> </tr> <tr> <td>$R_a =$</td> <td>100</td> <td>100</td> <td>100</td> <td>100 kΩ</td> </tr> <tr> <td>$R_g =$</td> <td>1</td> <td>1</td> <td>1</td> <td>1 MΩ</td> </tr> <tr> <td>$R_{g'} =$</td> <td>330</td> <td>330</td> <td>330</td> <td>330 kΩ</td> </tr> <tr> <td>$C_k =$</td> <td>50</td> <td>50</td> <td>50</td> <td>50 μF</td> </tr> <tr> <td>$R_k =$</td> <td>2,2</td> <td>2,2</td> <td>2,2</td> <td>2,2 kΩ</td> </tr> <tr> <td>$I_a =$</td> <td>0,98</td> <td>1,30</td> <td>1,63</td> <td>1,97 mA</td> </tr> <tr> <td>$\nu =$</td> <td>14</td> <td>14</td> <td>14</td> <td>14</td> </tr> <tr> <td>$U_a \sim =$</td> <td>17</td> <td>25</td> <td>32</td> <td>41 V_{eff}</td> </tr> <tr> <td>$k =$</td> <td>5,6</td> <td>5,8</td> <td>5,9</td> <td>6,0 %</td> </tr> </table>	$U_b =$	150	200	250	300 V	$R_a =$	100	100	100	100 k Ω	$R_g =$	1	1	1	1 M Ω	$R_{g'} =$	330	330	330	330 k Ω	$C_k =$	50	50	50	50 μF	$R_k =$	2,2	2,2	2,2	2,2 k Ω	$I_a =$	0,98	1,30	1,63	1,97 mA	$\nu =$	14	14	14	14	$U_a \sim =$	17	25	32	41 V _{eff}	$k =$	5,6	5,8	5,9	6,0 %	je System per section $U_a = 300 \text{ V}$ $Q_a = 2,75 \text{ W}$ $I_k = 20 \text{ mA}$ $-U_g = 120 \text{ V}$ $I_{ksp} = 250 \text{ mA}^*$ $R_g = 1 \text{ M}\Omega$ $U_{fk} = 180 \text{ V}$ $R_{fk} = 20 \text{ k}\Omega^{**}$ * Impulsdauer = 10% einer Periode $t_{max} = 2 \text{ ms}$ Pulse time = 10% per cycle $t_{max} = 2 \text{ ms}$ ** In Phasenumkehr- stufen max. 150 k Ω In phase-splitter stages max. 150 k Ω
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