



## TAD – 12AX7A/ECC83 REDBASE® High Performance High-Mu Twin Triode

The all-new designed TAD™ 12AX7A/ECC83 REDBASE® (part number: RT-12AX7) is a miniature, high-mu twin triode with very good gain. Selected and recommended for guitar amps to improve overall responsiveness and dynamics. Because of its cathode-to-heater voltage-withstand capability, this tube works perfectly as a cathode follower. Best for thick, clean tones as well as for those modern preamps where a deep low end is required. Recommended for all positions in medium gain amps or for V2+ positions in high-gain amps. For V1 in general but especially for high-gain amps or phono/audio-amps, we recommend the new 7025/E83CC REDBASE Highgrade (part number: RT-7025). The TAD 12AX7A/ECC83 REDBASE® can replace any 7025, 12AX7WA, 12AX7WB, 12AX7LPS, 12AX7EH, ECC83 or E83CC.

### Characteristics of a bogey tube:

Electrical		
Heater:	series	parallel
Voltage (AC or DC)	12.6V +/-1.0	6.3+/-0.5
Current ca.	0.18	0.35
Heating		Indirect
Cathode-to-heater potential, max.		170 V
Direct interelectrode capacitances, max.***		
Grid to plate		1.8 pF
Grid to cathode		1.9 pF
Grid to heater		0.3 pF
Plate to cathode		0.5 pF
Mechanical		
Operating Position		Any
Base		E9-1, Small Button 9 Pin
Dimensions:		
Height		56 mm
Seated height		49 mm
Diameter		22.5 mm
Cooling		conventional
Approximate net weight		12 g

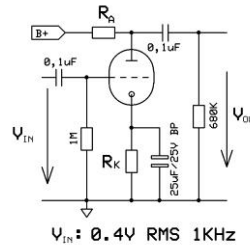
\*\*\*Without external shielding, nominal values

### AF Power Amplifier

Maximum ratings	
DC plate voltage	330 V
Positive DC Grid Voltage	0 V
Negative DC Grid Voltage	-55 V
Plate dissipation	1.2 W
Bulb temperature (surface hottest point)	165°C
Cathode Current	8 mA
Rg-k max.	2.2MΩ

RT-12AX7, 12AX7/ECC83 REDBASE						
B+ / V	R <sub>A</sub> / kΩ	R <sub>K</sub> / kΩ	V <sub>OUT</sub> / V <sub>RMS</sub>	V <sub>OUT</sub> / V <sub>IN</sub>	THD / %	I <sub>A</sub> / mA
200	47	1,50	14,5	36,3	5,7	0,8
250	47	1,20	16,0	40,0	4,0	1,1
300	47	1,00	18,0	45,0	3,0	1,5
350	47	0,82	18,7	46,8	2,1	1,9
400	47	0,68	19,7	49,3	1,8	2,3
200	100	1,80	18,7	46,8	5,3	0,6
250	100	1,50	20,5	51,3	3,8	0,8
300	100	1,20	22,2	55,5	2,8	1,1
350	100	1,00	23,4	58,5	2,2	1,4
400	100	0,82	24,3	60,8	1,7	1,7
200	220	2,70	20,6	51,5	5,7	0,4
250	220	2,20	22,7	56,8	4,2	0,5
300	220	1,50	24,8	62,0	3,1	0,7
350	220	1,20	26,0	65,0	2,6	0,8
400	220	1,00	27,1	67,8	2,0	1,0

### Test setup:



### Bottom View

