# ECC83 WA TAD Premium Selected
# High Performance High-Mu Twin Triode

The **TAD™ ECC83 WA** is a miniature, high-mu twin triode for use in first preamp stages of high-gain audio frequency amplifiers. The new TAD ECC83 WA Selected provides a stunning warm tone, thick midrange and sweet natural overtone harmonics. It has been designed by TAD with triple mica construction for low noise performance. Perfect for clean or moderate gain preamps as well as for high-gain amps from V2 position (for V1/Input stage or phono amplifier the HIGHGRADE selection RT080 is recommended)
It´s great dynamics, low noise operation and warm tone makes the TAD ECC83 WA to be an excellent all-rounder with great value for money. Selected for 5% balanced systems to suit phase inverter systems or high end stereo applications

The TAD™ **ECC83 WA** replaces any 12AX7, 12AX7A/WA/WB/WC, ECC83, 7025, SPAX7-A

We recommend the RT008 TAD **ECC83 WA** especially for guitar amplifiers like Blackstar, Brunetti, Diezel, ENGL, Fender, Hiwatt, Laney, Marshall, Mesa Boogie, Orange, VOX etc.

## Characteristics of a bogey tube:

| **Electrical** | | |
|---|---|---|
| Heater: | Series | Parallel |
| Voltage (AC or DC) | 12.6V +/-1.0 | 6.3+/-0.5 |
| Current | 0.15 | 0.3 |
| Heating | | Indirect |
| Cathode-to-heater potential, max. | | 150V |
| Direct interelectrode capacitances, max.*** | | |
| Grid to plate | | 1.8pF |
| Grid to cathode | | 2.0pF |
| Grid to heater | | 2.0pF |
| Plate to cathode | | 2.1pF |
| **Mechanical** | | |
| Operating Position | | Any |
| Base | | E9-1, Small Button 9 Pin |
| Dimensions: | | |
| Height | | 58 mm |
| Seated height | | 51 mm |
| Diameter | | 22.5 mm |
| Cooling | | conventional |
| Approximate net weight | | 13 g |

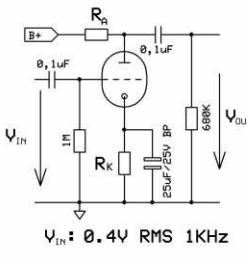
****Without external shielding, nominal values*

| **AF Power Amplifier** | |
|---|---|
| **Maximum ratings** | |
| DC plate voltage | 330 V |
| Positive DC Grid Voltage | 0 V |
| Negative DC Grid Voltage | -55 V |
| DC cathode current | 8 mA |
| Plate dissipation | 1.2 W |
| Cathode current | 8mA |
| Bulb temperature (surface hottest point) | 160°C |

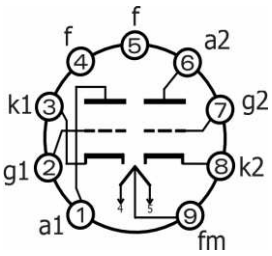
### RT008, ECC83WA

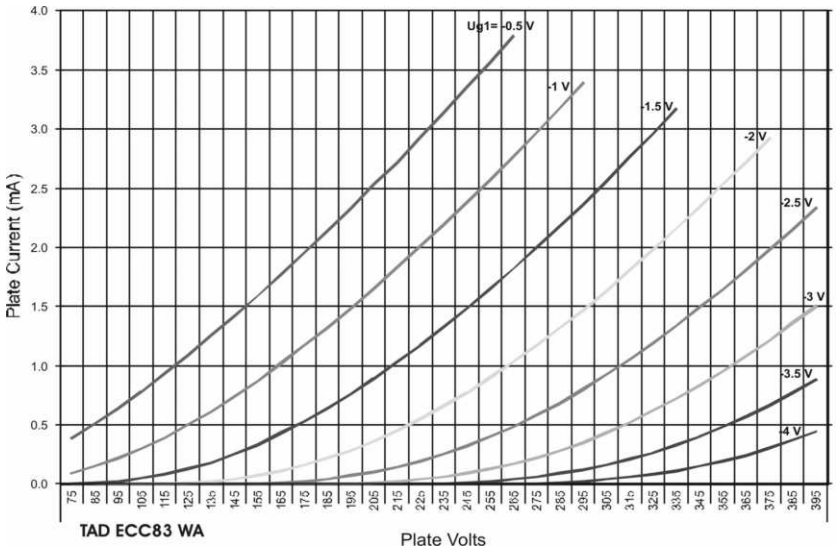
| B+ / V | $R_A$ / kΩ | $R_K$ / kΩ | $V_{Out}$ / $V_{RMS}$ | $V_{Out}$ / $V_{IN}$ | THD / % | $I_A$ / mA |
|---|---|---|---|---|---|---|
| 200 | 47 | 1,50 | 14,0 | 35,0 | 5,7 | 0,8 |
| 250 | 47 | 1,20 | 15,5 | 38,8 | 4,0 | 1,1 |
| 300 | 47 | 1,00 | 16,6 | 41,5 | 3,0 | 1,5 |
| 350 | 47 | 0,82 | 17,7 | 44,3 | 2,1 | 1,8 |
| 400 | 47 | 0,68 | 18,2 | 45,5 | 1,8 | 2,3 |
| | | | | | | |
| 200 | 100 | 1,80 | 18,5 | 46,3 | 5,3 | 0,6 |
| 250 | 100 | 1,50 | 20,2 | 50,5 | 3,8 | 0,8 |
| 300 | 100 | 1,20 | 21,6 | 54,0 | 2,8 | 1,1 |
| 350 | 100 | 1,00 | 22,6 | 56,5 | 2,2 | 1,4 |
| 400 | 100 | 0,82 | 23,6 | 59,0 | 1,7 | 1,7 |
| | | | | | | |
| 200 | 220 | 2,70 | 20,8 | 52,0 | 5,7 | 0,4 |
| 250 | 220 | 2,20 | 22,8 | 57,0 | 4,2 | 0,5 |
| 300 | 220 | 1,50 | 24,8 | 62,0 | 3,1 | 0,7 |
| 350 | 220 | 1,20 | 25,5 | 63,8 | 2,6 | 0,8 |
| 400 | 220 | 1,00 | 27,0 | 67,5 | 2,0 | 1,0 |

### Test arrangement:




### Bottom View
**Octal Base Connections**




### Outline View