



## TAD – EL84-Cz High Performance Audio Power Pentode

The **TAD EL84-CZ** is the muscle man and roughneck among the EL84 models. It gives most amps an extra powerful bass response. Be careful with amps that do already have a fat bass and make sure their speaker can handle the increased bottom end as it might become too much.

The **TAD EL84-CZ** is the most powerful EL84 tube we have ever heard. Big tone and very dynamic. Our recommendation, if a strong and powerful tone is what you are looking for.

Due to its nowadays typical diameter of 22.5mm, the **TAD EL84-CZ** does not fit into older Marshall DSL401 and UK made VOX AC15 TBX amplifiers.

### Characteristics

#### Electrical

Heater:	Min.	Nom.	Max.	
Voltage (AC or DC)	5.8	6.3	6.7	V
Current			1.5	A
Cathode:	Oxide-coated, unipotential			
Cathode-to-heater potential, max.				100 V
Direct interelectrode capacitances, max.***				
Grid no.1 to cathode				10pF
Grid no.1 to plate				0.6 pF
Plate to cathode				5.1pF
Grid no.1 to heater				0.15pF

#### Mechanical

Operating Position	vertical operation preferred
Base	octal, 8-pin
Dimensions:	
Height	78 mm (3.07 in.)
Seated height	72 mm (2.84 in.)
Diameter	22.5 mm (0.89 in.)
Cooling	Convection
Approximate net weight	22 g (0.77 oz.)

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

#### AF Power Amplifier

##### Maximum ratings

DC plate voltage	400 V
Grid no.2 DC (screen) voltage	300 V
Grid no.1 (control) voltage	- 100 V
DC cathode current	65 mA
Plate dissipation	12 W
Grid no.2 DC (screen) dissipation	2 W
Grid no. 1 Resistor fixed bias	<300kΩ
Grid no. 1 Resistor automatic bias	<300kΩ

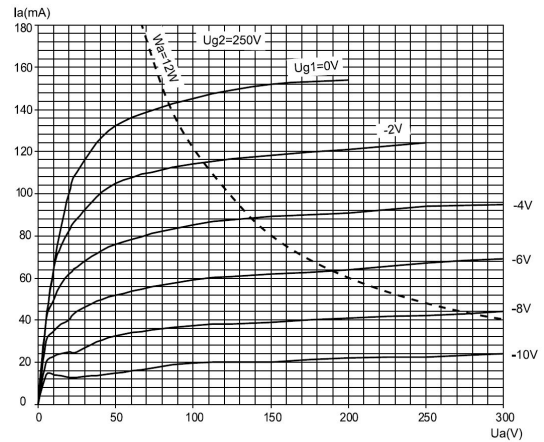
#### Typical Operation

##### AF Power Amplifier, Class A1 (single tube)

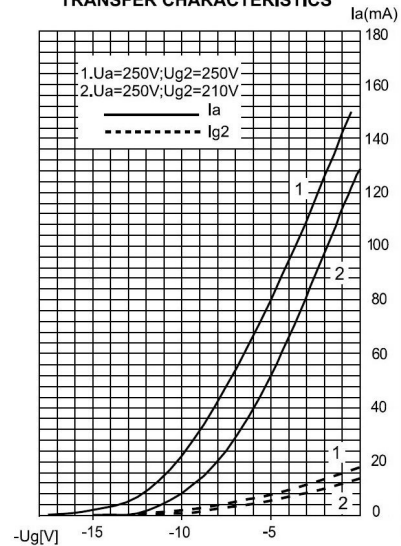
Plate Voltage	250 V
Grid 2 Screen Voltage	250 V
Grid 1 Control Voltage*	-7.3 V
Zero Signal Plate Current	48 mA
Zero Signal Grid 2 Screen Current (avg)	5.5 mA
Load Resistance	5200 Ohms
Transconductance (nominal)	10000 mS
Output Power at 10% distortion	5.7 W

\* Approximate Value (set to zero signal plate current)

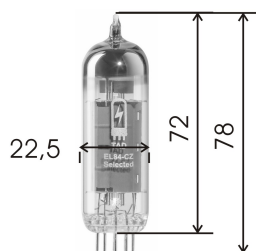
### Typical Performance EL84-CZ Curves



### TRANSFER CHARACTERISTICS

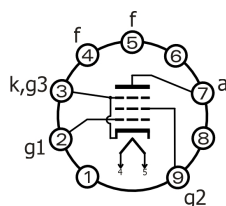


### Outline View



### Bottom View

#### Octal Base Connections



free pins not to be connected externally

