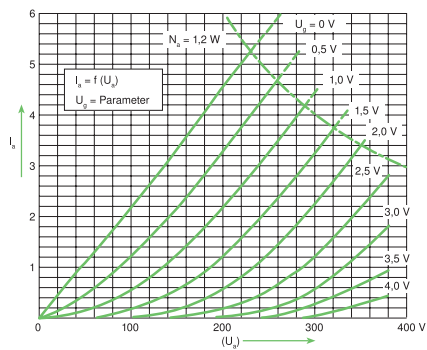


COOL VALVE

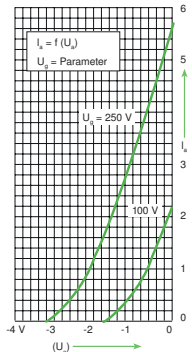
ECC 803S



PLATE CHARACTERISTICS



TRANSFER CHARACTERISTICS



COOL VALVE

ECC 803S gold pins by **EAT**

The Cool Valve ECC 803S is the finest twin triode with separate cathodes available in today's market. Double triode means the valve is built with two totally independent triode systems.

The most demanding tube for both sound and build quality is Telefunken ECC 803S. This original tube can only be sourced from old inventories and not reliable sources offering no warranty period. There is the risk of forgeries, functionless valves or overpriced goods.

We tried to find a way to make a better product for high requirements of exclusive amplifiers.

EAT has set a high standard by trying all existing ECC 803S by defining sophisticated selection methods to get only the very best to our demanding customers.

The selection procedure uses several measurements. All measurements are performed after a long burn-in procedure and thermal stabilization of its parameters. Only a few valves pass the Selection process and even fewer pass the strict Diamond selection.

The inseparable part of the Cool Valve ECC 803S is the EAT Cool Damper. EAT developed a special high temperature glue to fix the damper to the valve glass envelope. This glue is designed to transform vibration energy into thermal energy, which is then dissipated as heat. The Cool Damper is a truly effective vibration & micro-phonic absorbing device.

enjoy high fidelity
Now you can enjoy upgraded high fidelity sound in your system.

Indirectly heated audio frequency twin triode

Heating 6,3 V / 300 mA or 12,6 V / 150 mA

Typical Characteristic

U _{ba}	100	250		V
R _k	2	1,6		kΩ
I _a	0,5	1,25	± 0,15	mA
S	1,25	1,6	± 0,3	mA/V
μ	100	100		
R _i	80	62,5		kΩ
-I _g		≤ 0,2		μA
-U _g (I _a =20 μA)		≤ 4		V
-U _g (I _g = +0,3 μA)		≤ 1		V

End of the life time (see "Typical Characteristic values", U_a = 250 V)

Plate current I_a reduced from initial value to 0,8 mA
Mutual conductance S reduced from initial value to 1,05 mA/V
Negative grid current -I_g increased from initial value to 0,5 μA

Absolute maximum ratings

U _{a0}	600	V
U _a	330	V
N _a	1,2	W
U _g	+ 0,5	V
U _g	- 55	V
R _g ¹	1,2	MΩ
R _g ²	2,2	MΩ
R _g ³	25	MΩ
I _k	9	mA
U _f /k	± 200	V
R _f /k ⁴	20	kΩ
T _{bulb}	170	°C
T _{dumper}	100	°C

¹ fixed grid bias

² cathode grid bias

³ U_g produced by voltage drop across R_g only

⁴ In phase-split-stage immediate before power stage max. 150 kΩ

Substitutes: 12 AX7, ECC 83, E83CC, 7025, 5751, 7058, 7729, 6681, CV492, CV8156, 6057.