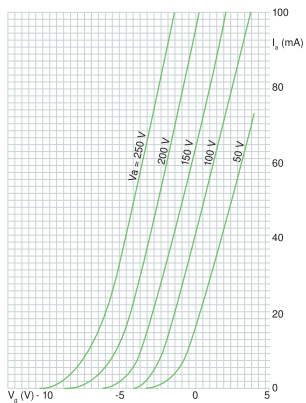


### AVERAGE TRANSFER CHARACTERISTICS



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# COOL VALVE

## ECC 88



# COOL VALVE

ECC88 by



The EAT ECC88 is a special quality double triode. The tube satisfies the specifications in accordance with MILE-E-1/1J168 (NAVY) from 18. 6. 1958.

## Quick reference data:

Life	10 000 hours
Low interface resistance	
Mechanical quality	Shock and vibration resistant
Base	Noval. Gold plate pins
Heating	Indirect A. C. or D. C. ; parallel supply
Heater voltage	$V_f$ 6,3 V
Heater current	$I_f$ 300 mA
Anode current	$I_a$ 15 mA
Mutual conductance	$S$ 12,5 mA/V
Equivalent noise resistance	$R_{eq}$ 300 $\Omega$
Noise factor (f = 200 MHz)	F 4,6 dB

**Tight tolerances:** In these tubes the tolerance of electrical ratings are reduced in comparison with standard tubes.

**Vibration and shock proof:** The tube withstands accelerations of 2,5 g at 50Hz for lengthy periods and momentary shocks of 500g for short periods.

**Cathode free from Interface:** The cathode establishes no interface even in case where the heated tube is operated without plate current over lengthy periods.

## Limiting values Design centre rating system

Anode voltage	$V_{a0}$	Max. 550 V
Anode voltage (Zero cathode current)	$V_a$	Max. 400 V
Anode voltage	$V_{a1}$	Max. 220 V
Anode voltage (Max. anode dissipation 0,8 W)	$V_{a2}$	Max. 250 V
Anode dissipation	$W_{a1}$	Max. 1,5 W
Anode dissipation (Max. anode dissipation of section 1 plus section 2 = 2 W)	$W_{a2}$	Max. 1,8 W
Grid dissipation	$W_g$	Max. 30 mW
Grid voltage	$-V_g$	Max. 100 V
Grid peak voltage (Max. pulse duration 200 $\mu$ sec) (Max. duty factor 0,1)	$-V_{gp}$	Max. 200 V
Cathode current	$I_k$	Max. 20 mA
Cathode peak current (Max. pulse duration 200 $\mu$ sec) (Max. duty factor 0,1)	$I_{kp}$	Max. 100 mA
Voltage between cathode and heater		
Cathode positive	$V_{k1}$	Max. 150 V
Cathode negative	$V_{k2}$	Max. 100 V
Bulb temperature (Absolute max.)	$t_{bulb}$	Max. 170 °C
Grid resistor (Anode current < 5 mA)	$R_g$	max. 1 M $\Omega$

Heater voltage: The average heater voltage should be 6,3 V.

Variations of the heater voltage exceeding the range of 6,0 V to 6,6 V will shorten the tube life. The tolerance of heater current (column II) should be taken into account.

**Substitutes:** E88CC, 6DJ8, 6922