EOM and AOM Box

- Idea: <fc #ff0000>PAPER FOR EOM/T CONTROL</fc>

Advantages

1. easy to handle
2. robust
3. mechanics/temperature stabil
4. active control of the temperature of the EOM

Components

Optics

- 1x Fiber-AOM
- 1x Fiber-EOM
- 1x Fiber-Coupler/Splitter
- 2-3x Fiber-rewinder (=Aufwickler)

Mechanics

- Alu-Box (Typ: 01182810/A131)
- Breadboard
- Mount for AOM (Material: Alu)
- Mount for EOM (Material: Alu, Cupper, Teflon, ...)

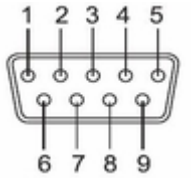
Electronics

- 2x SMA connectors for RF-freqeuncy
- 1x BNC connector for out-of-loop temperature measurement
- 1x Sub-D-9-Male connector for temperature controlling
- 2x Peltier elements (Typ: QC-K03504T125, 189186 from Quick-Coo)
- 2x 10kOhm NTC (Typ: Epcos B57861S)
- Cables for NTC´s 0.25mm^2 (max. 4A)
- Heat-conducting paste between peltier elelements to Al-mount and peltier elements to cupper mount
- NTC´s cables are twisted and have a shield, which is connected to earth

Electronic connections

Sub-D-9

- Typ: Male



Pin-assignment PTB-styl

Pin	Name
1	-
2	-
3	-
4	NTC (for AD590 +)
5	NTC (for AD590 -)
6	Peltier -
7	Peltier +
8	-
9	-

Possible setup