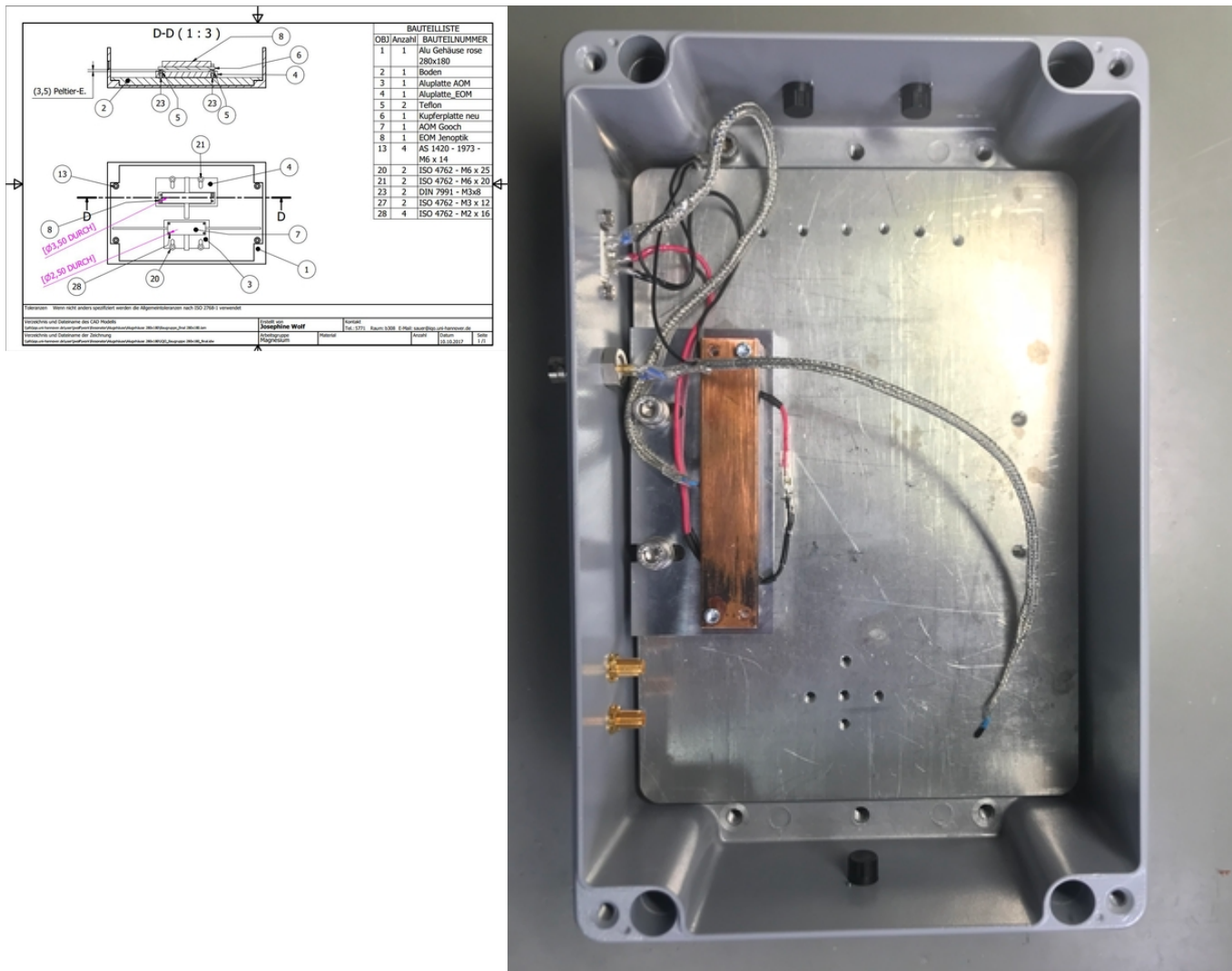


EOM and AOM Box



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

OBJ	
1	iqo_baugruppe_280x180_final.pdf
2	iqo_gehaeuse_280x180.pdf
3	iqo_boden_280x180.pdf
4	iqo_aluplatte_aom.pdf
5	iqo_aluplatte_eom.pdf
6	iqo_teflon_abstandshalter.pdf
7	iqo_kupferplatte.pdf

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, ...)

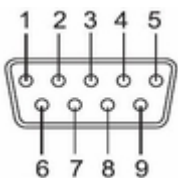
Electronics

- 2x SMA connectors for RF-frequeuncy
- 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; Datasheet: 189186-da-01-de-peltier_element_3504.pdf)
- 2x 10kOhm NTC (Typ: Epcos B57861S)
- Cables for NTC's 0.25mm² (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	Color(s)
1	-	-
2	-	-
3	-	-
4	NTC (for AD590 +)	Blue
5	NTC (for AD590 -)	Green
6	Peltier -	Grey, Yellow, Pink
7	Peltier +	Red, Brown, White
8	-	
9	-	

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