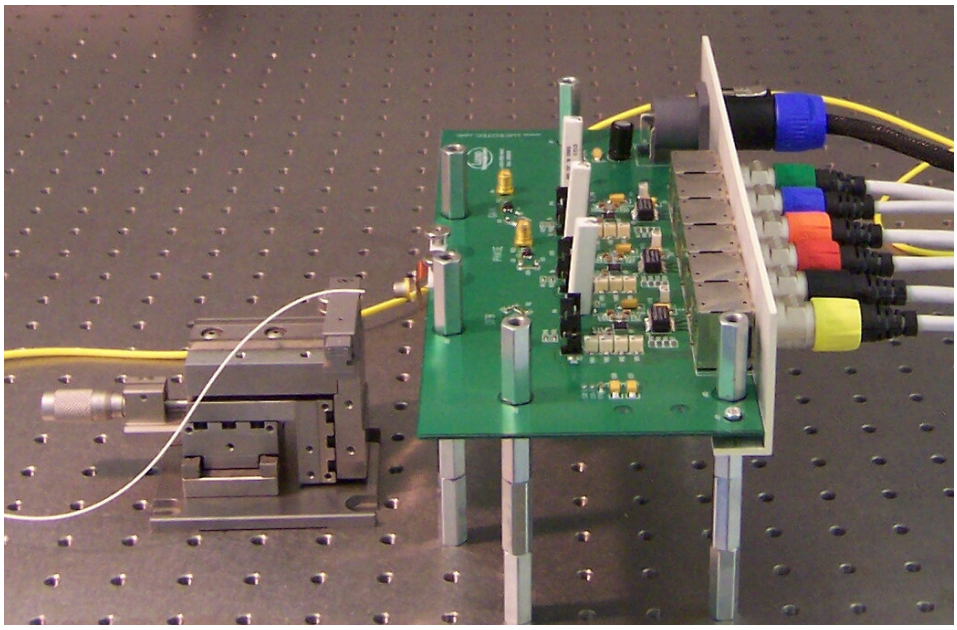
PRINCIPLE SETUP:

- **DUT board is direct mountable to Newport® optical bench**
- **any laser diode package is mounted via FlexPCB adaptor**
- **fibre adjustment to laser diode is possible on optical bench**



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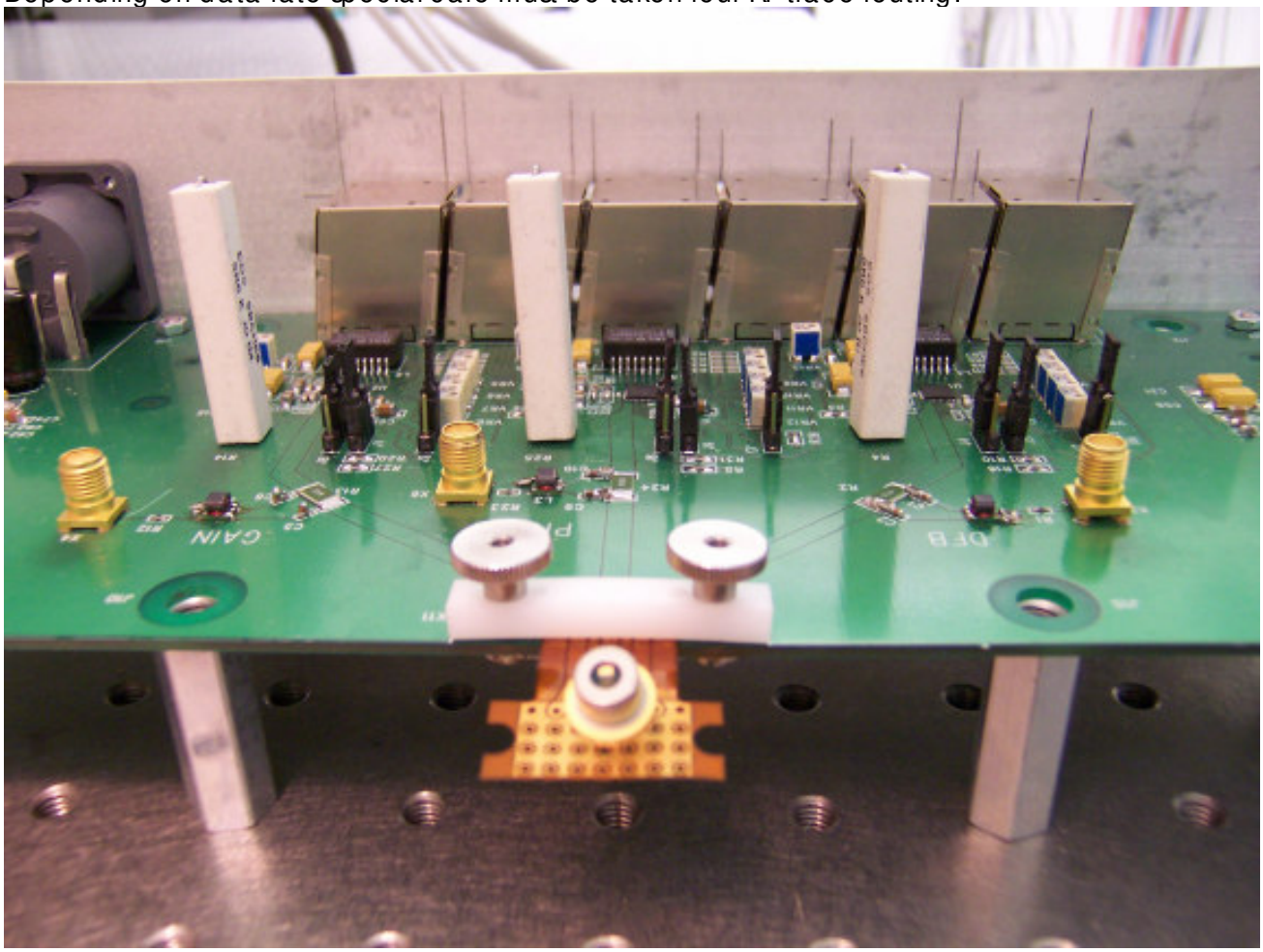
TYPICAL FLEX ADAPTOR SOLUTIONS

When using laser diodes in TO packages, a flex adaptor with pin-holes is recommended.
Depending on data rate special care must be taken four RF-trace routing.



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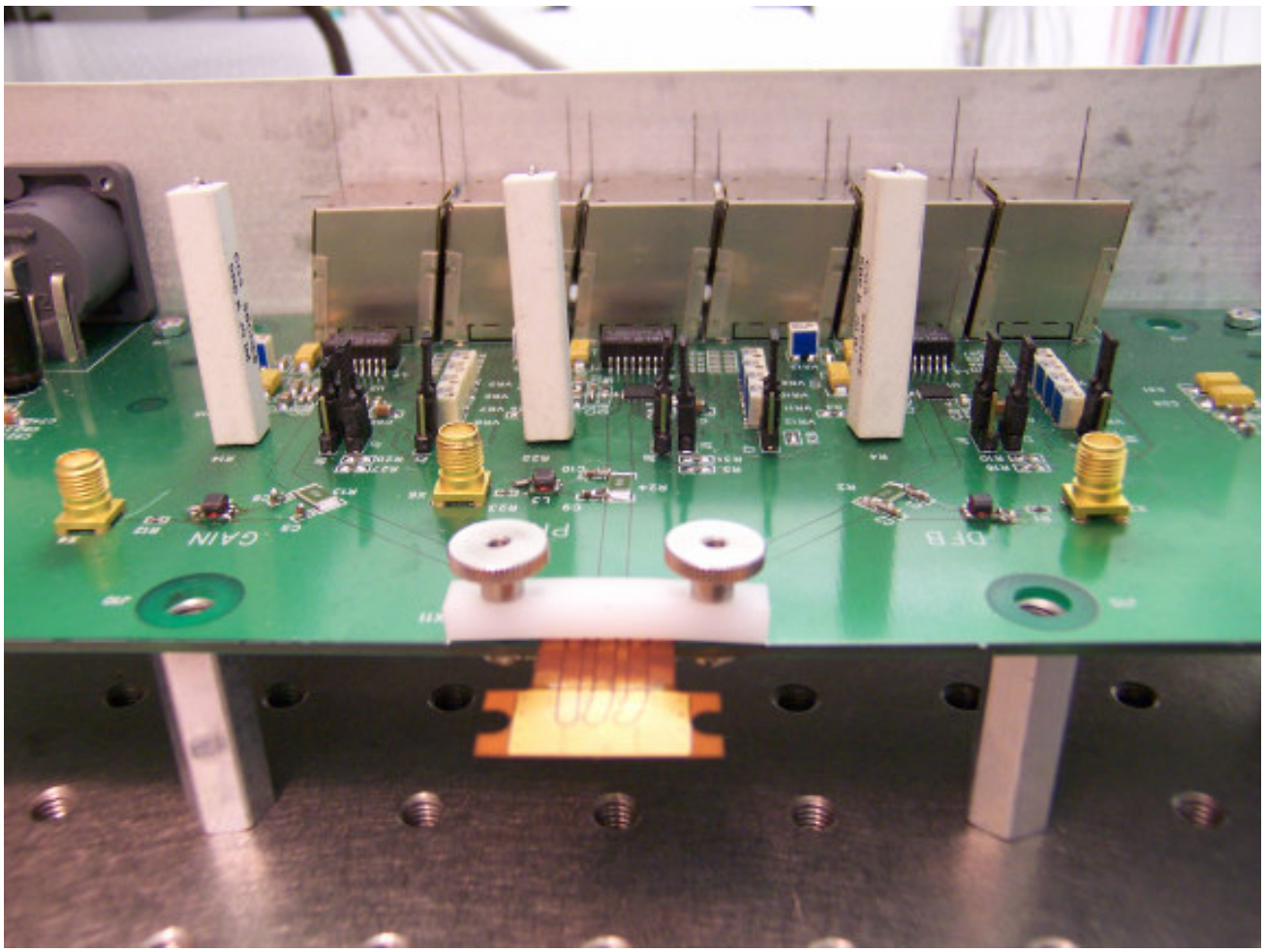
When using laser diodes as bare die, a flex adaptor with massive GND-plane for thermal dissipation is recommended. Bond wires connect the die with the RF traces.



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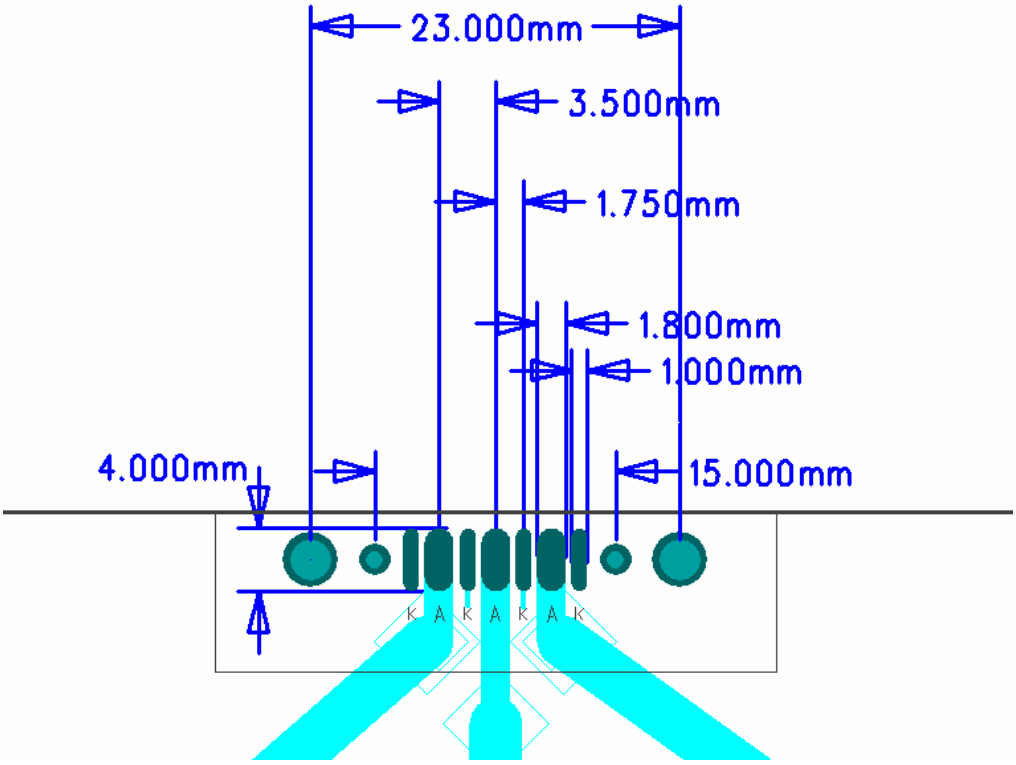
FOOTPRINT FOR FLEXPCB

The drawing below specifies the footprint on the PCB, with A:Anode and K:Cathode. Cathode is Ground (0V), Anode is driven with positive voltage from current source.



RECOMMENDATION

It is recommended to have vias in the pads which brings RF signal to top of the FlexPCB and to have a GND-plane on the bottom for improved RF performance. RF track width should be choosen with respect to PCB thickness and impedance matching to a reference impedance of $Z_L=5\Omega$.

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