TeraLineX TD-800-CPS

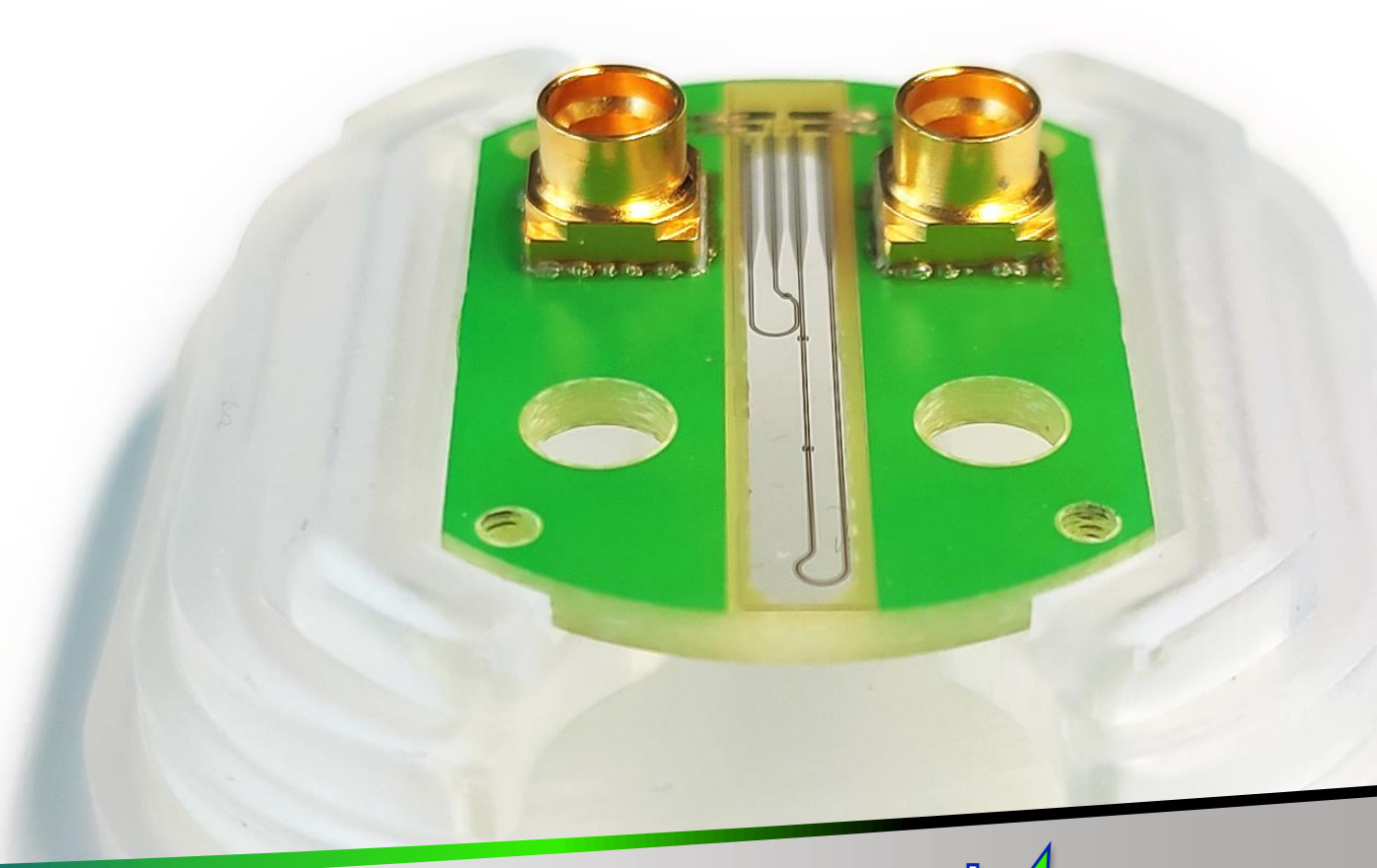
CPS-based on-chip THz TDS device series

TeraLineX TD-800-CPS

Model: CLSD-5MM

KEY FACTS:

- On-chip THz time-domain spectrocopy (TDS) platform.
- Enables THz TDS at micron-scale devices/samples much smaller than the THz diffraction limit.
- Can be operated in small cryo chambers at low temperatures or in magnetic fields.
- Supports exchangable daugther-boards as sample carriers for cost-efficient operation.
- Customizable on request.



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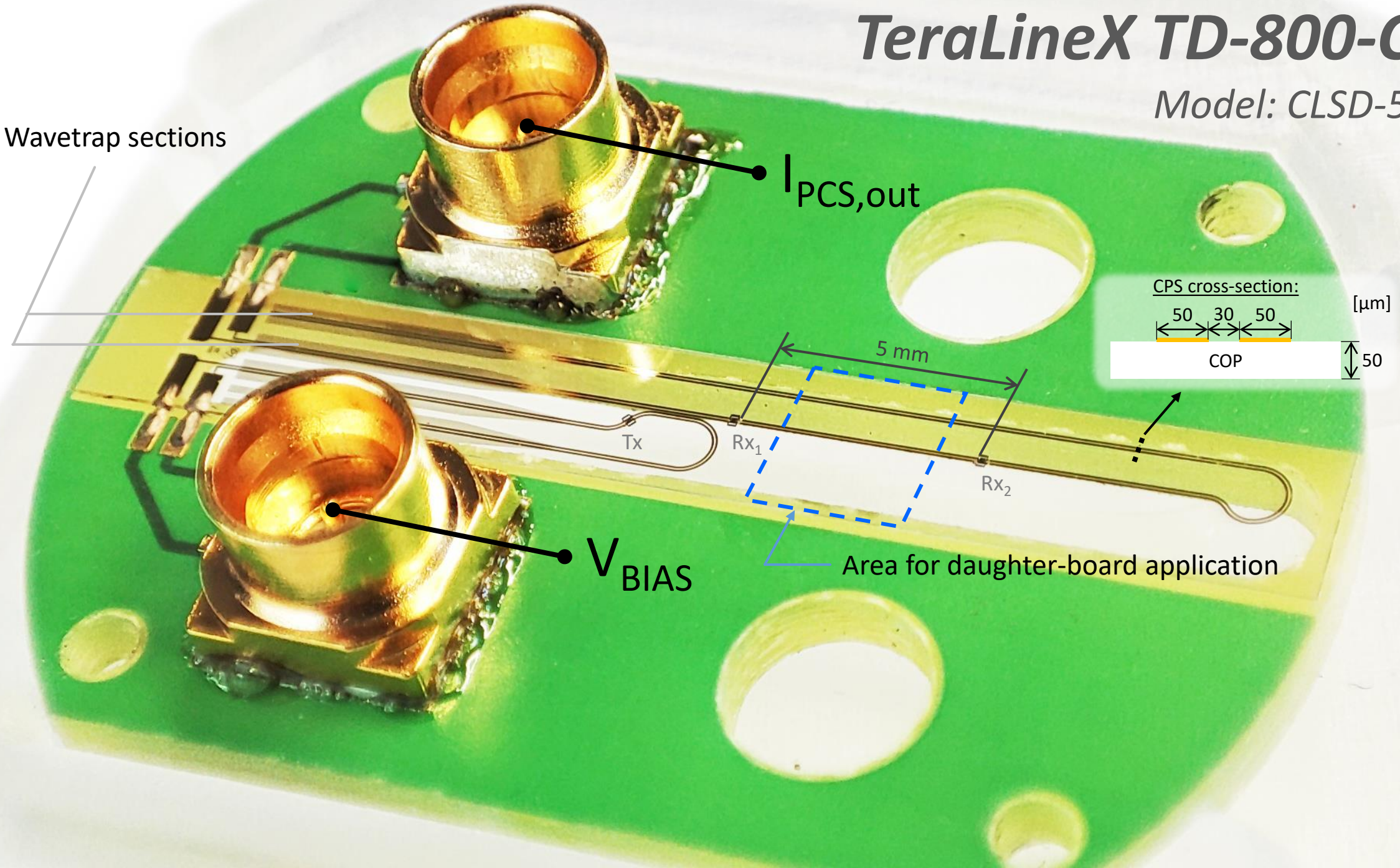

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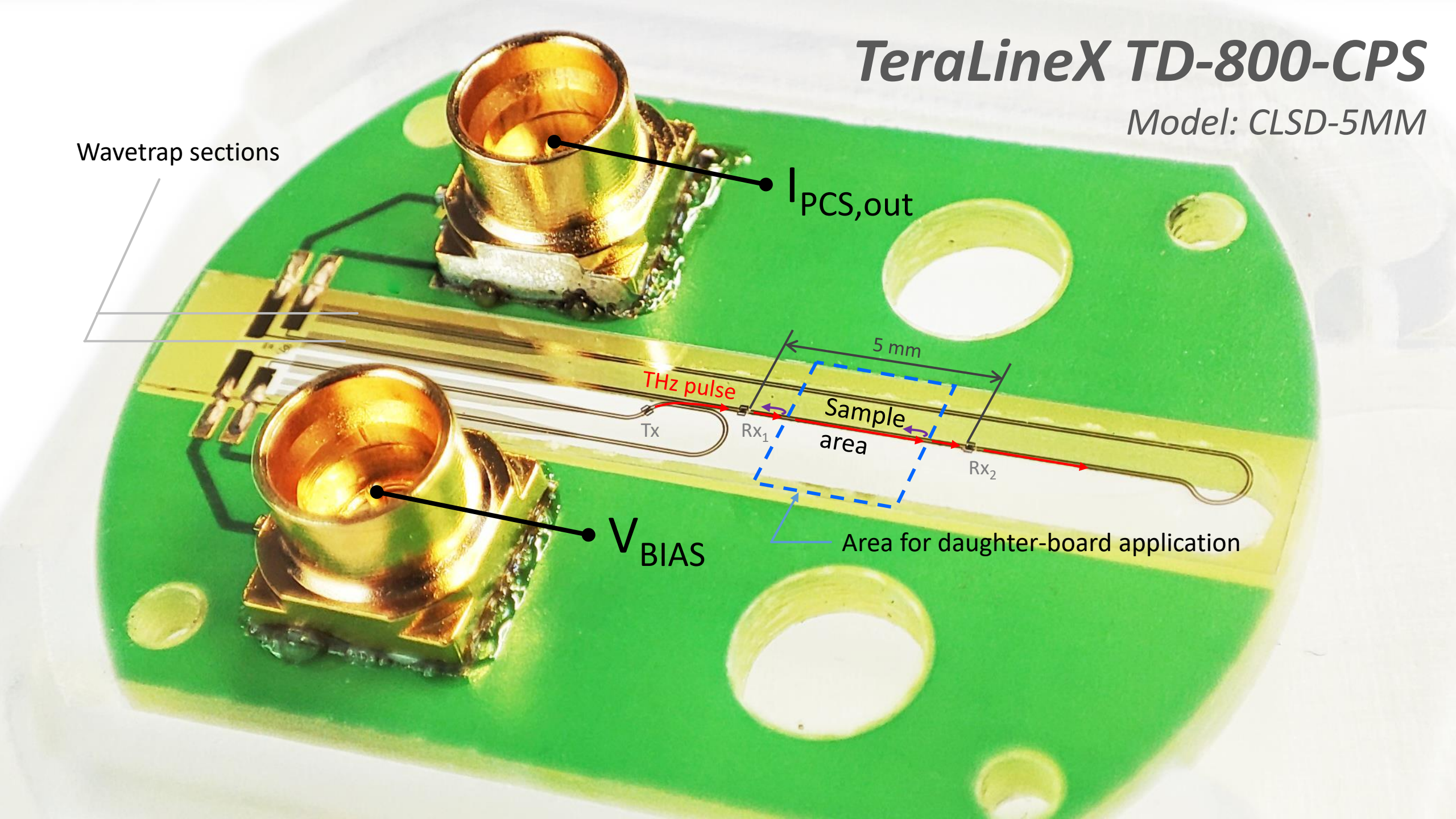

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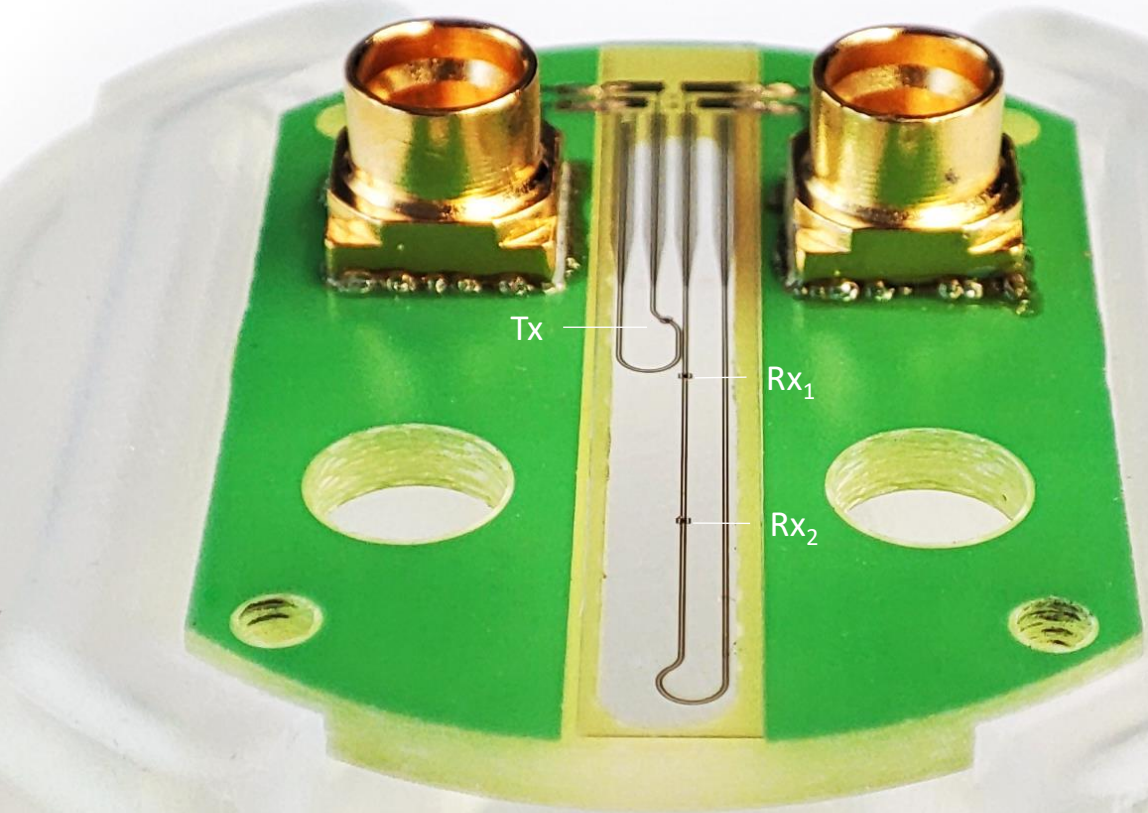
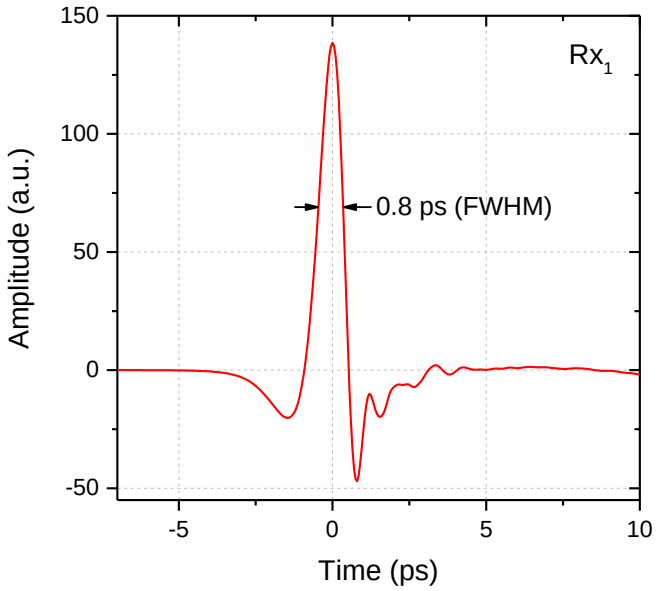
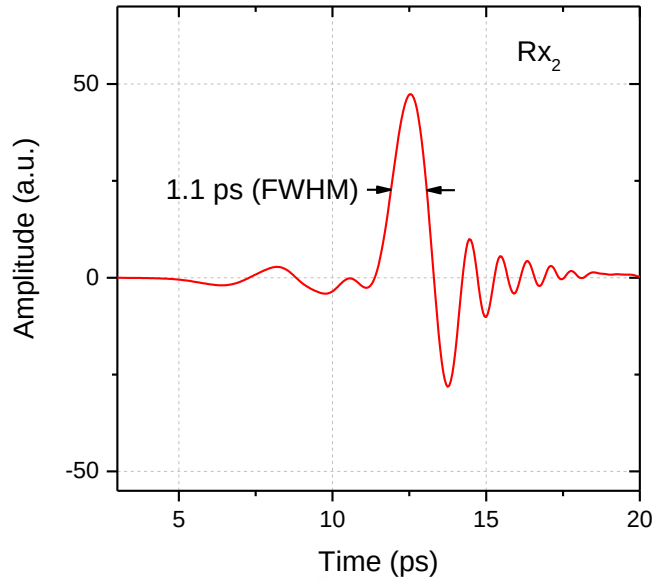
CLSD-5MM, Time-domain measurement performance







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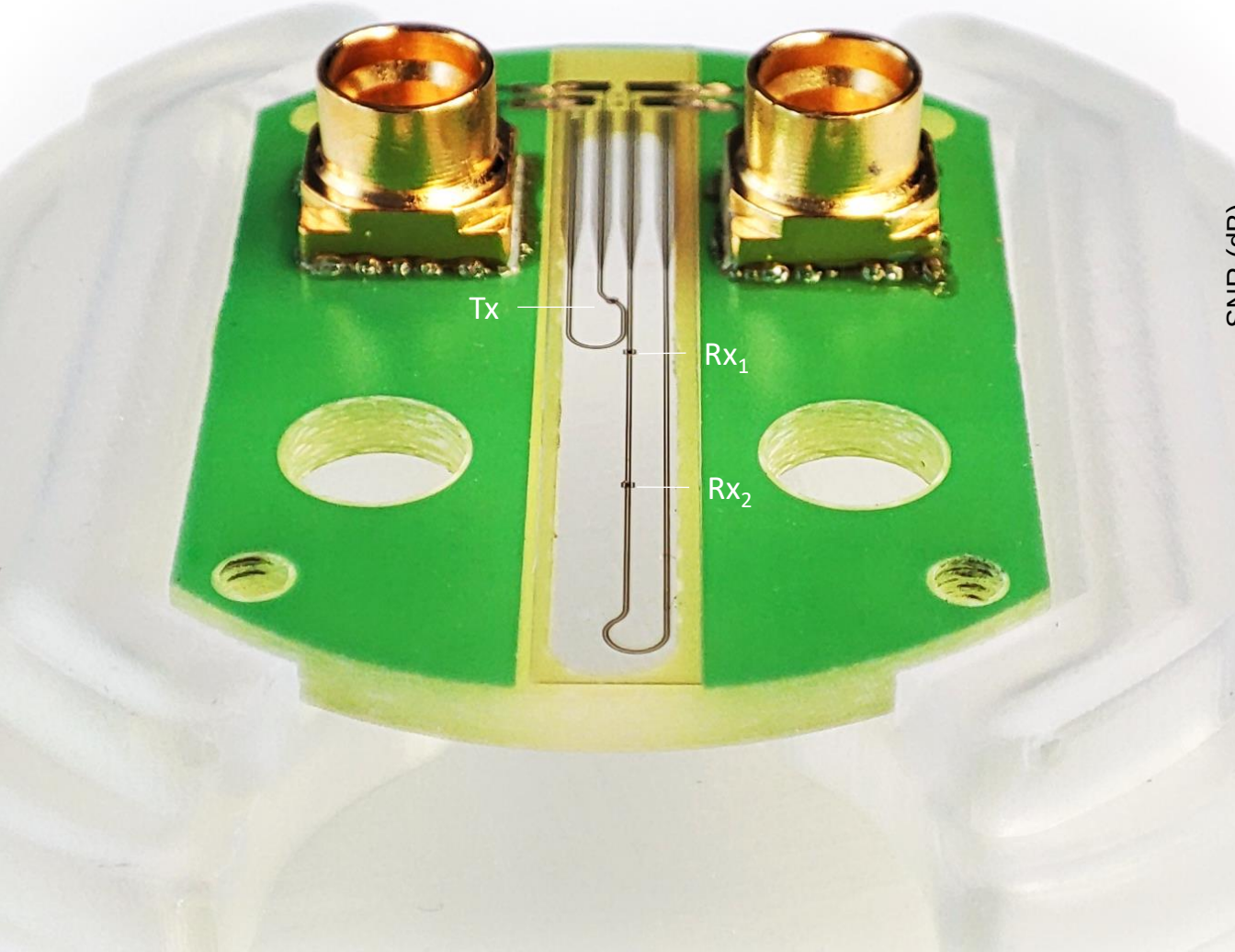
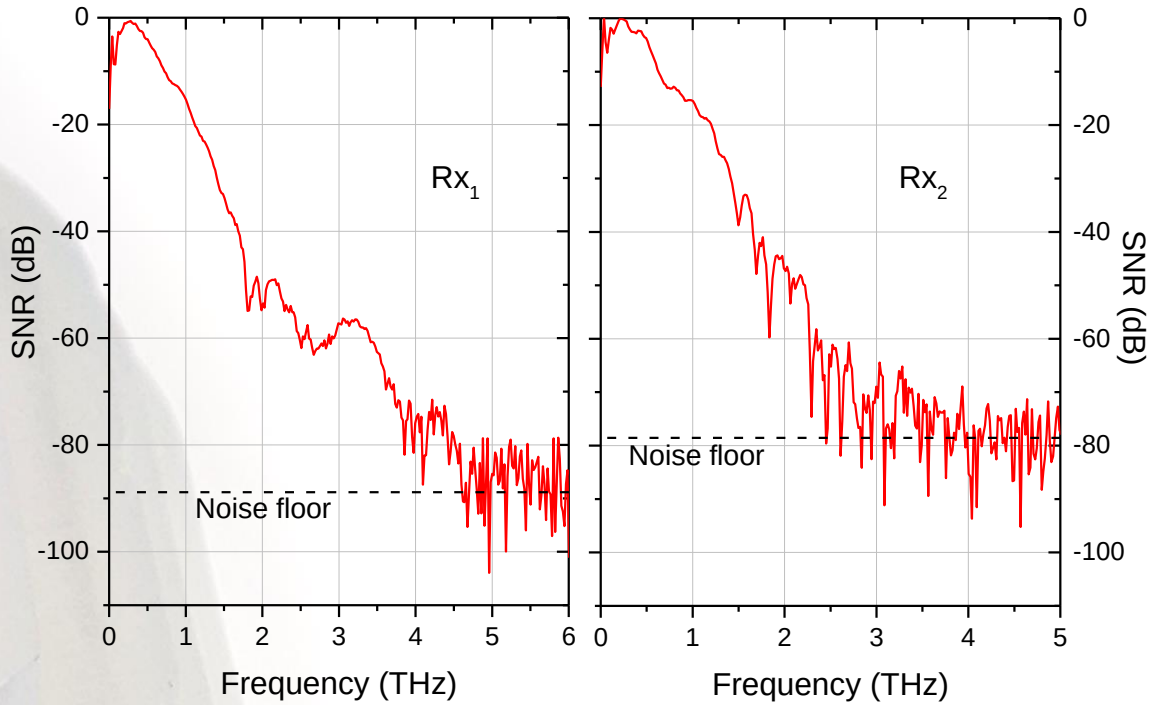
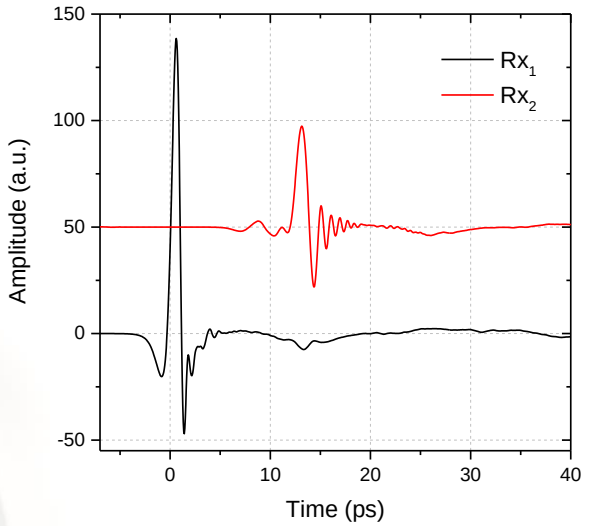
CLSD-5MM, Frequency-domain measurement performance





TeraLine TD-800-CPS-CLSD-5MM

Technical specifications



TeraLine TD-800-CPS-CLSD-5MM	Emitter	Detector
PC gap size	10 µm	10 µm
Dark current @ 1 V Bias	< 0.5 nA	< 0.5 nA
Photocurrent	> 0.1 µA[(a)]	> 0.1 µA[(b)]
Excitation wavelength	700 .. 860 nm	
Avg. excitation power	0.1 .. 4 mW	0.1 .. 4 mW
Connection type	SMP	

[(a)] For a focus diameter of circa 30 µm, bias voltage 9 V , average optical excitation power 4 mW.

[(b)] For a focus diameter of circa 30 µm, bias voltage 1 V , average optical excitation power 4 mW.

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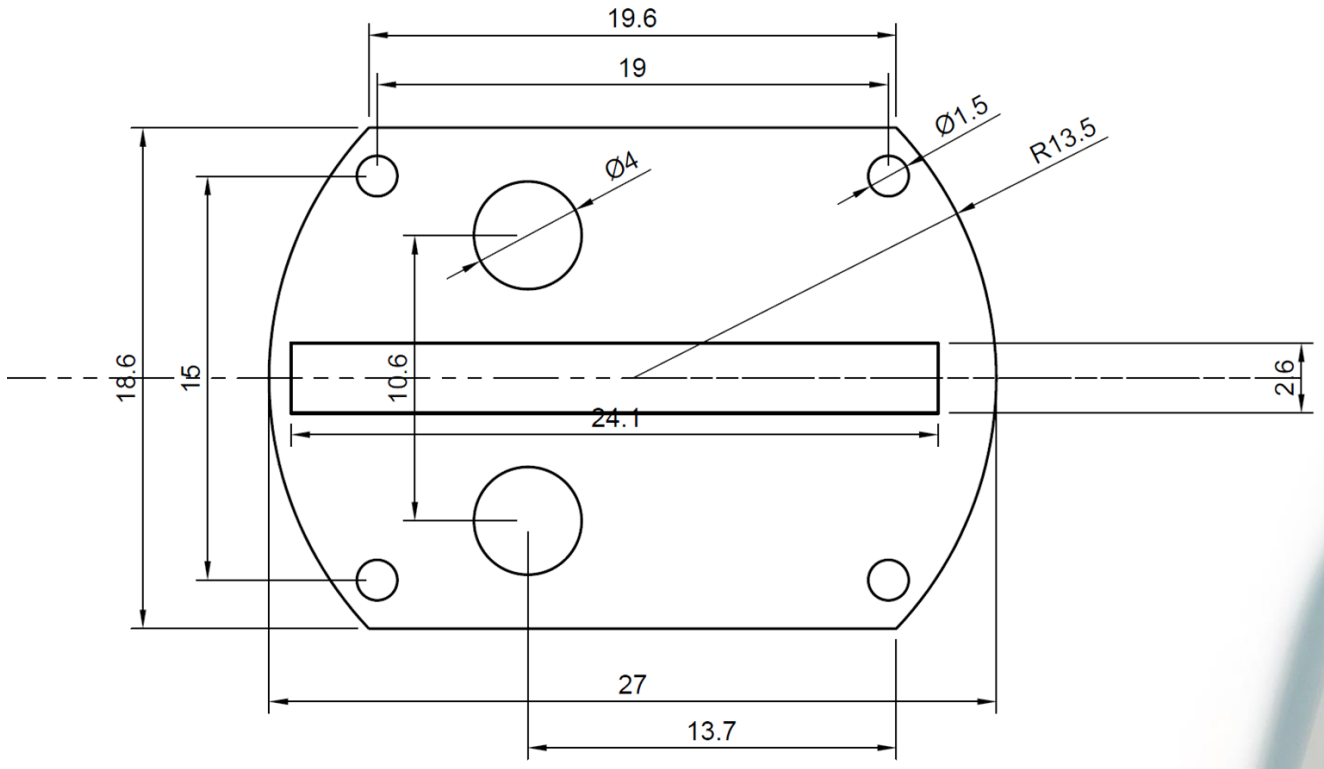
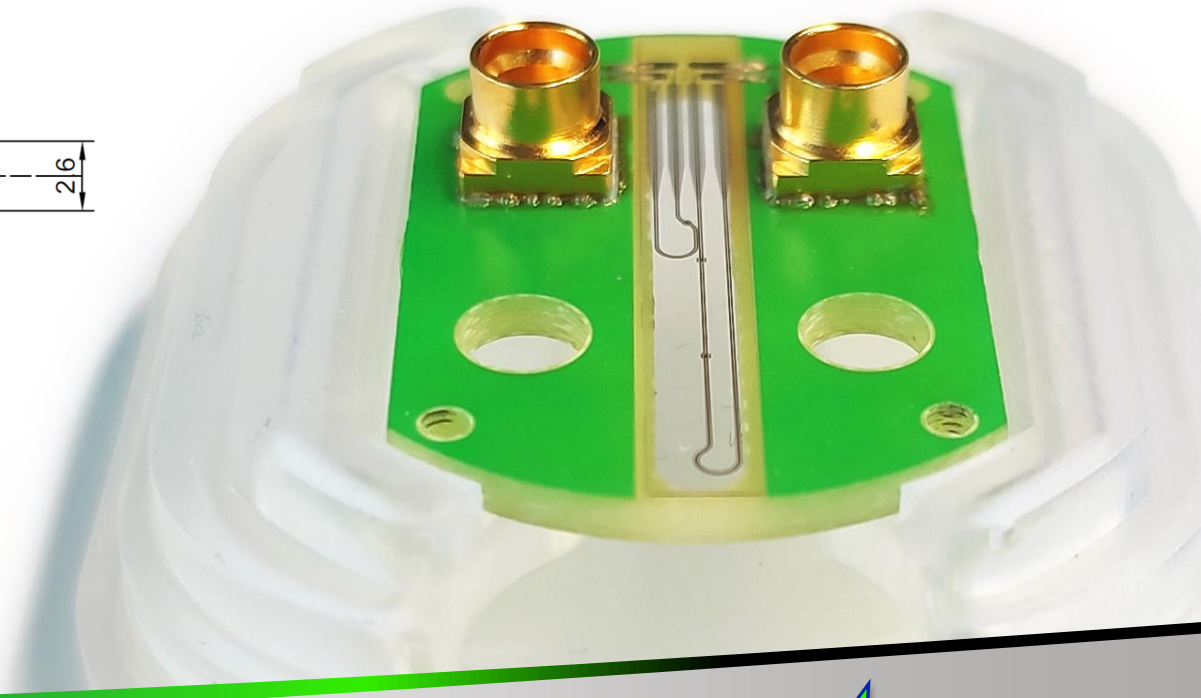
PCB dimensions





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- Questions?
- Please contact us under info@protemics.com