
Terahertz Sensing - Non-contact thickness measurements with μm resolution

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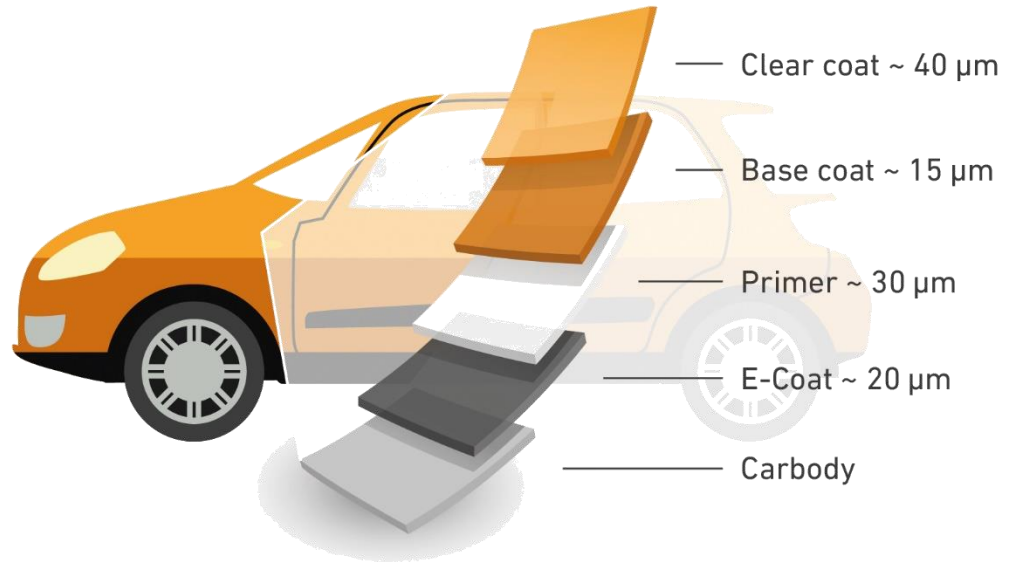


Application Example: Thickness measurement of car paint

Multilayer thickness measurement

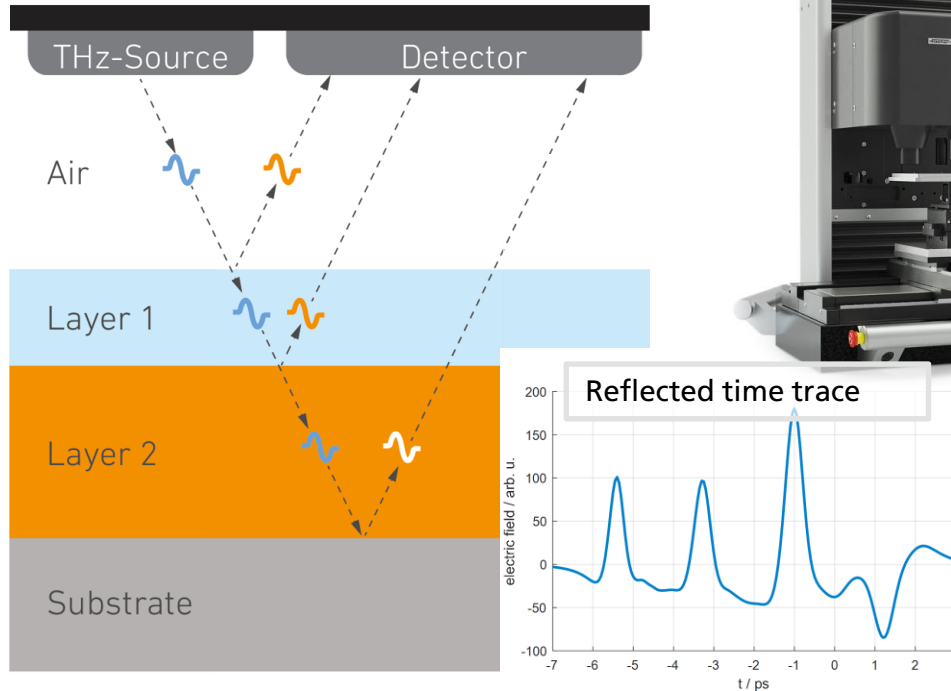
Requirements of car industry

- single measurement
- non-contact
- fully automated
- substrate independent (metal, plastic, CFRP, GFRP)



Terahertz Measurement

Radar-like time-of-flight detection



Key parameters

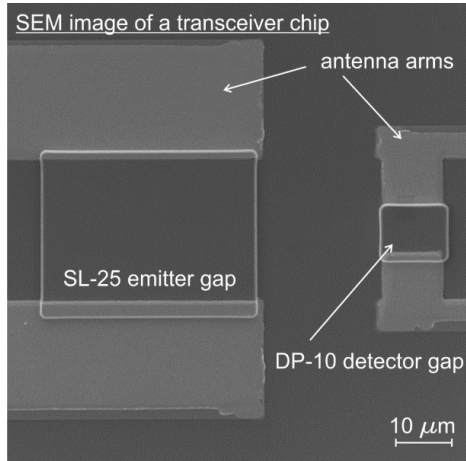
- 100 GHz to 6 THz
- Up to 5 layers simultaneously
- Min. thickness: 5 μm
- Max. thickness: > 1 cm
- Accuracy < 1 μm or 1 % of thickness
- Substrate independent: Metal, plastic, CFRP, GFRP...

Integration in paint lines of car manufacturers started



Our IP: Terahertz Sensors

Our Interest: New partners for NDT, measurement, & system integration



Patented semiconductor technology



Industry-ready turn-key systems



First demonstrators successfully installed