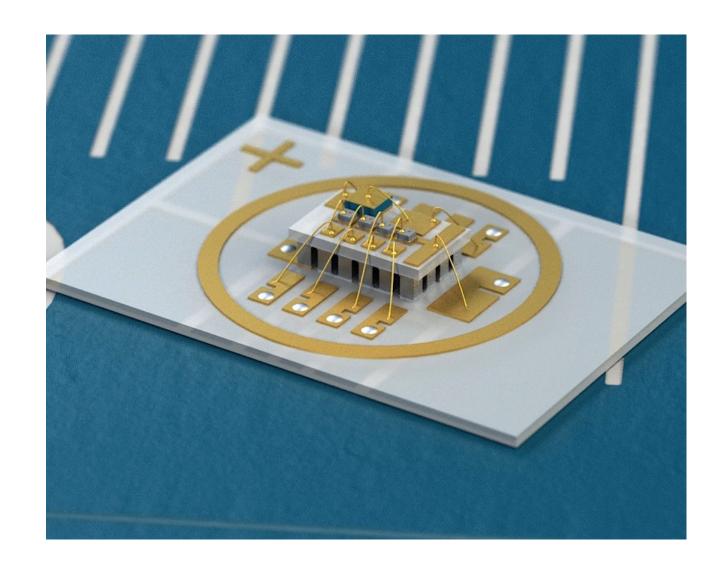
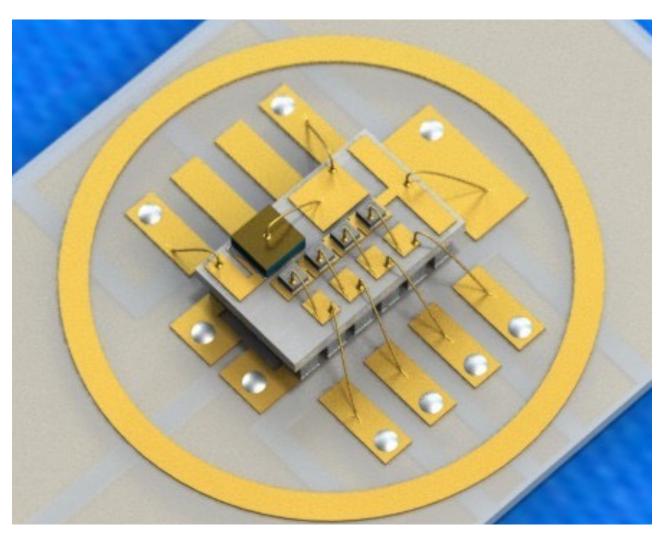
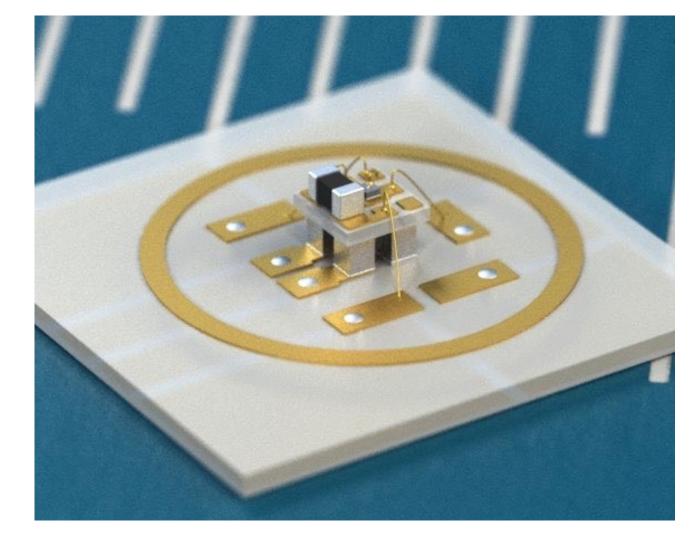
Header-free Solution for VCSEL Applications



TEC Bottom Ceramics is revised for SMT process (using Vias)

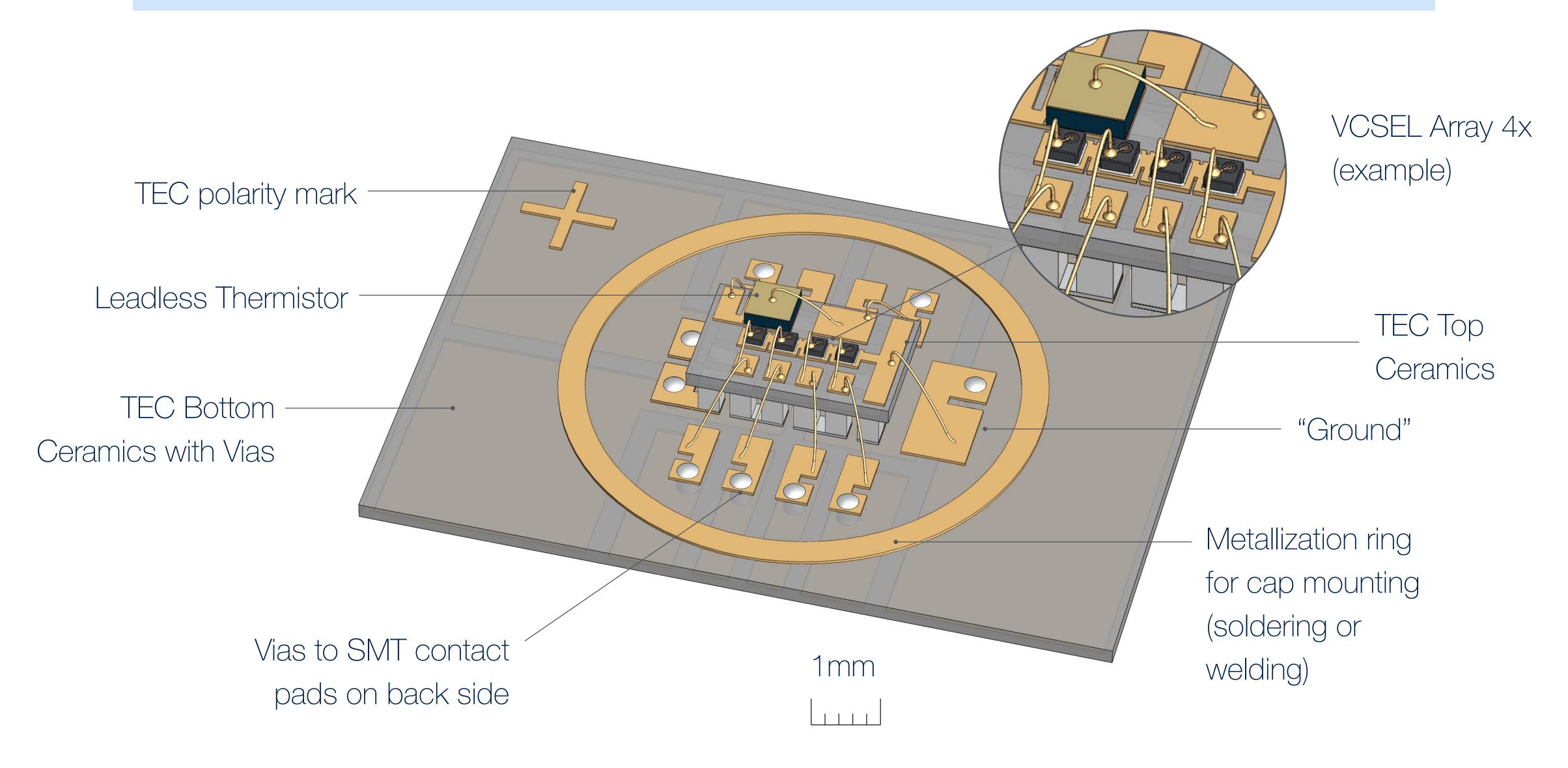


Flexible solutions for single VCSEL and Arrays

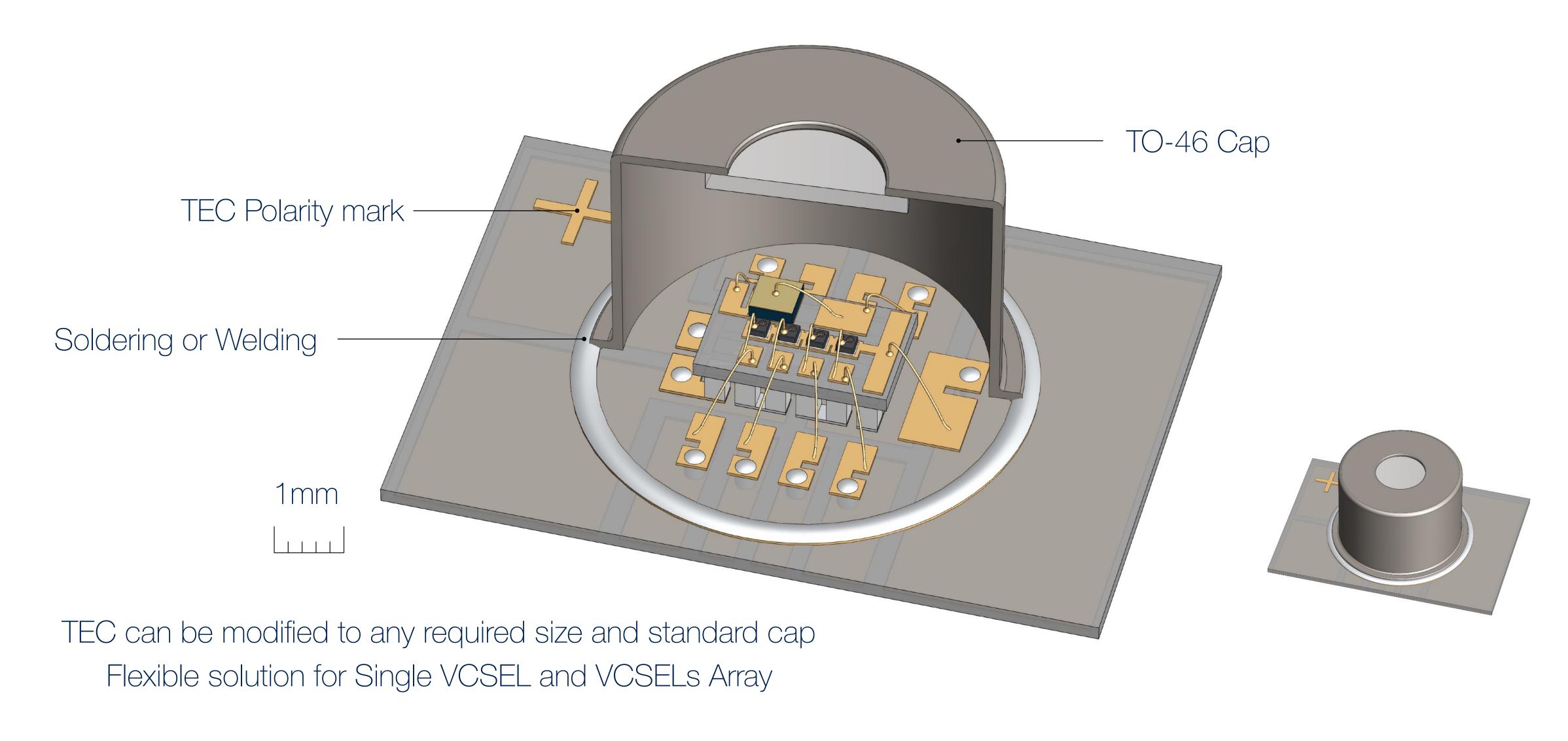


Various TEC solutions with different performance parameters

Header-free Solution for VCSEL Applications (Example)

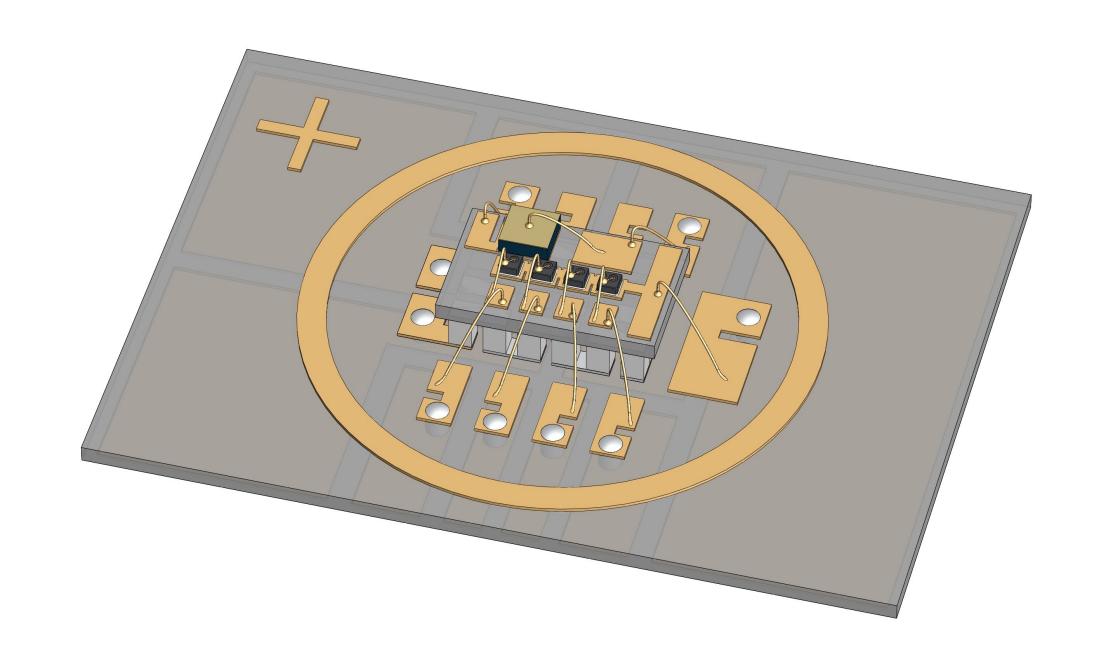


Header-free Solution for VCSEL Applications



Header-free Solution for VCSEL Applications

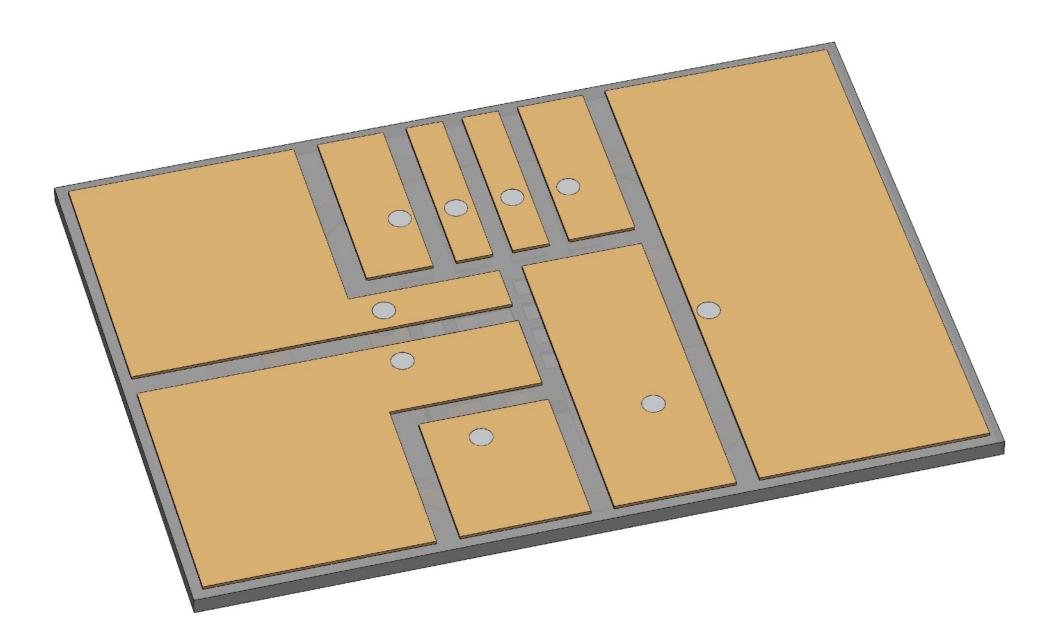
VCSEL TEC Example Assembly



TEC Bottom Ceramics is suitable for SMT mounting.

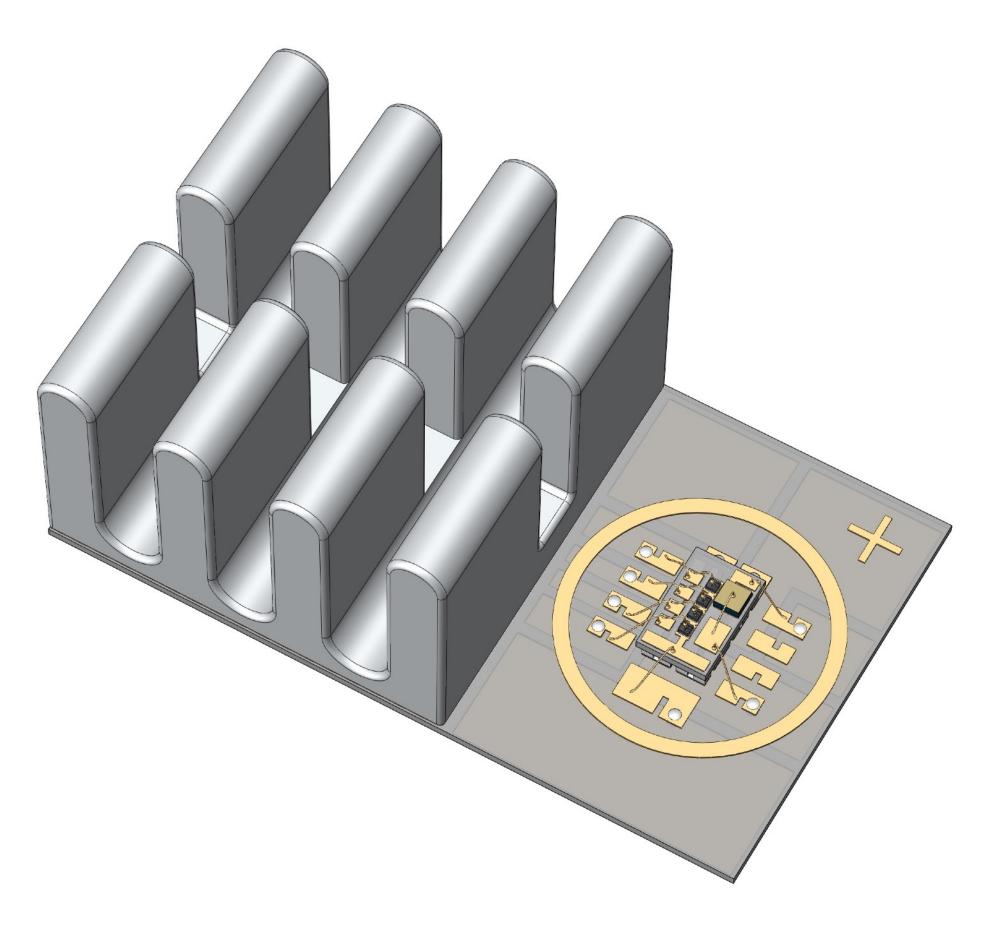
VIAS, pinout, TEC type are variable

Bottom side layout (example)

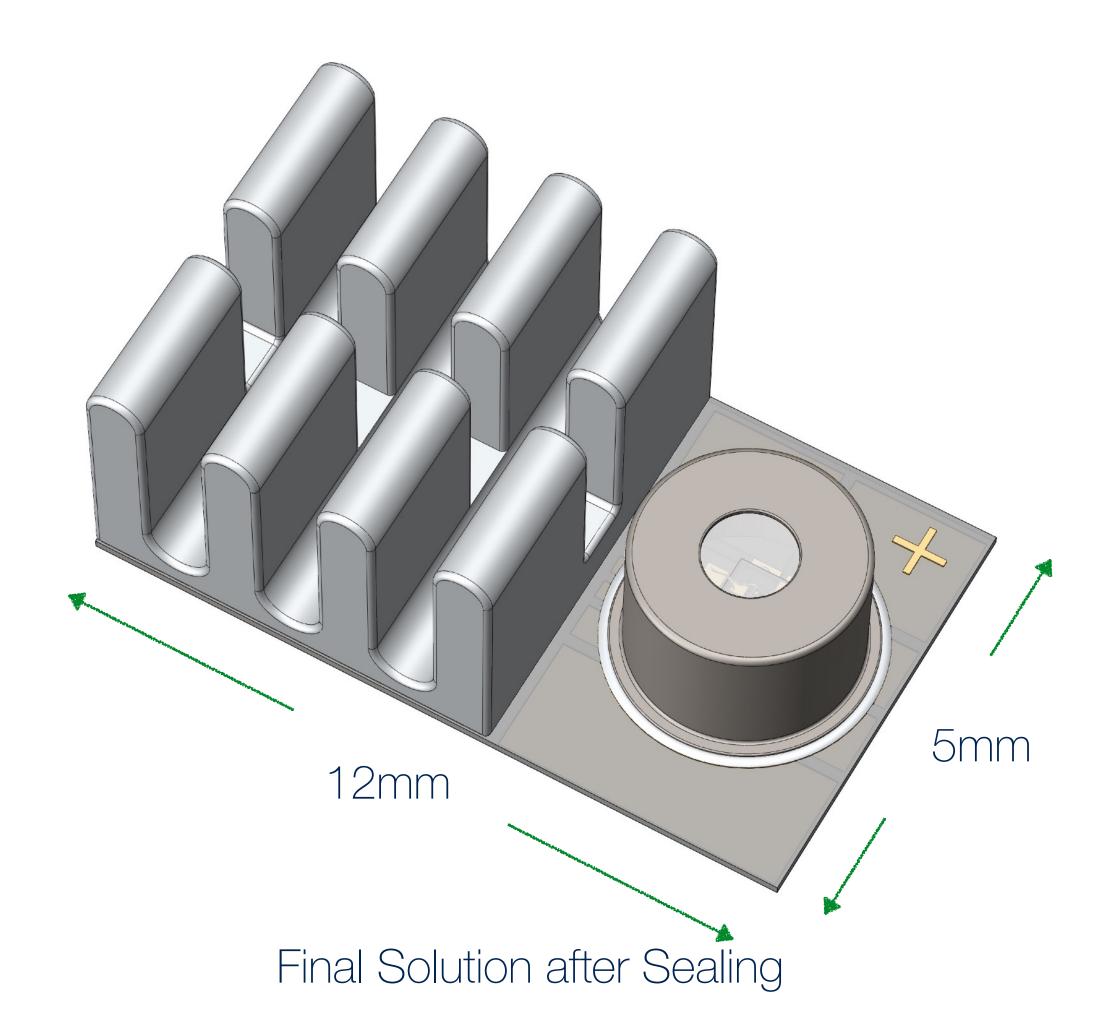


SMT surface can be developed in accordance to application requirements (size, number of vias and etc)

Variable Modification with Heatsinks



Extended Ceramics for standard 7x7x4mm³ Heatsink mounting



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Variable Modification with Heatsinks - Radial Heatsink (Example)

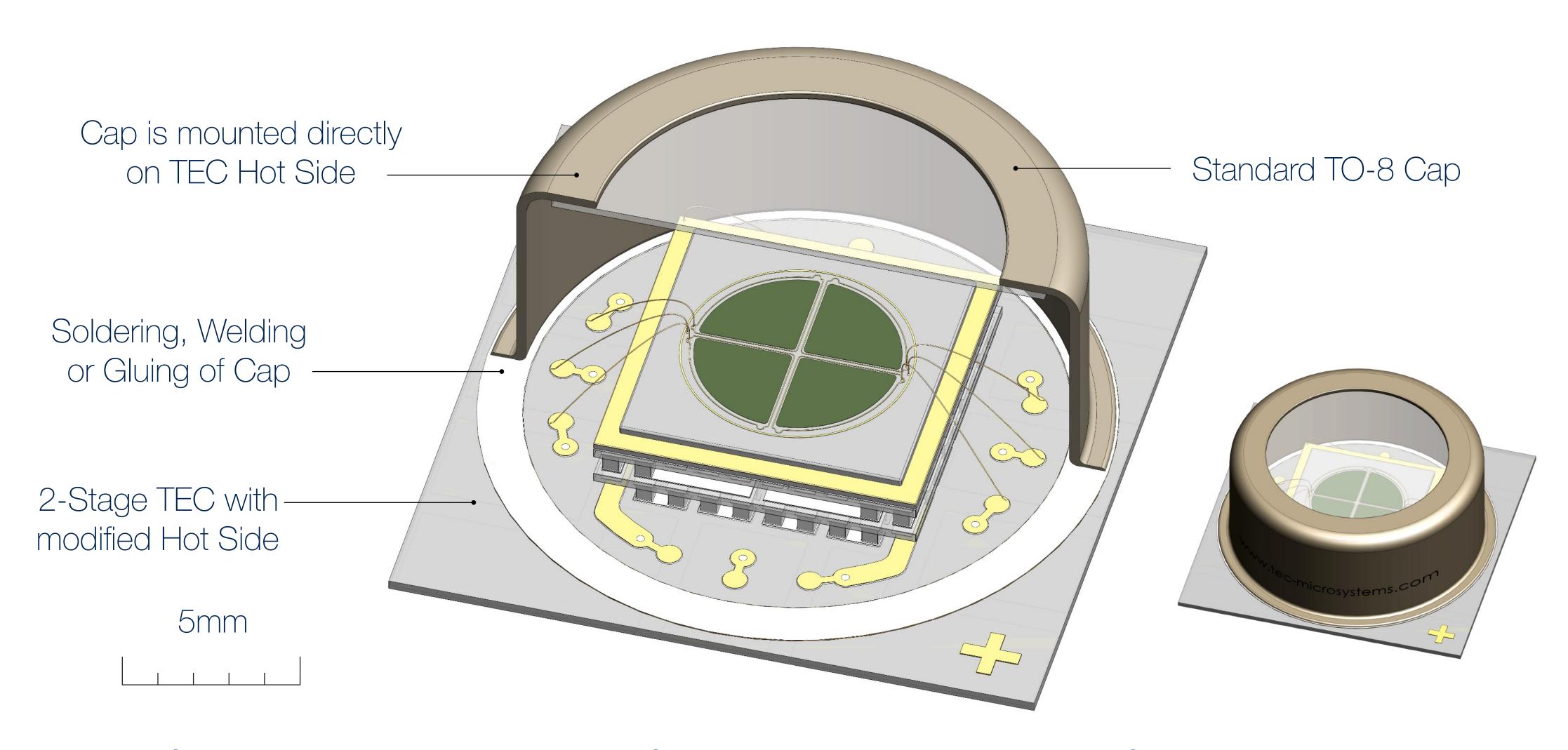


Extended Ceramics for customized 10mm dia Radial Heatsink



Final Solution after Sealing

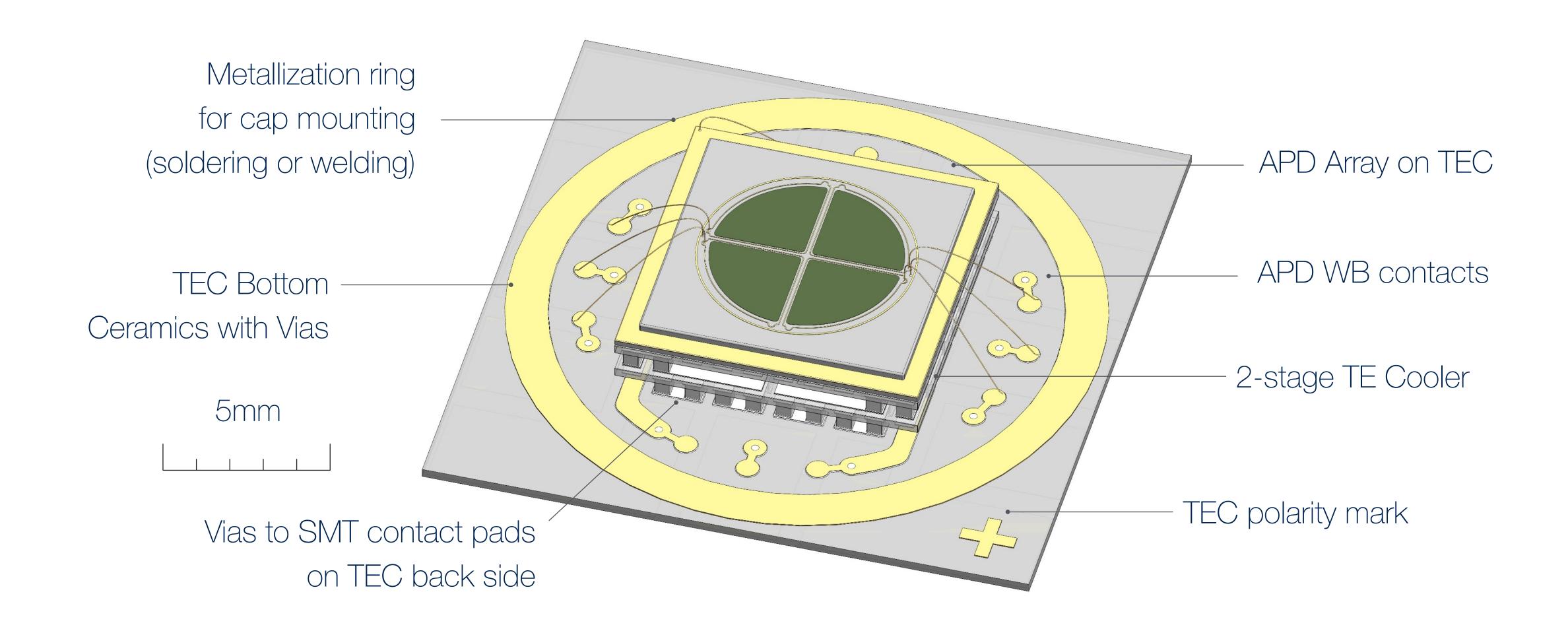
Header-free TEC Solution for APD Applications (Concept)



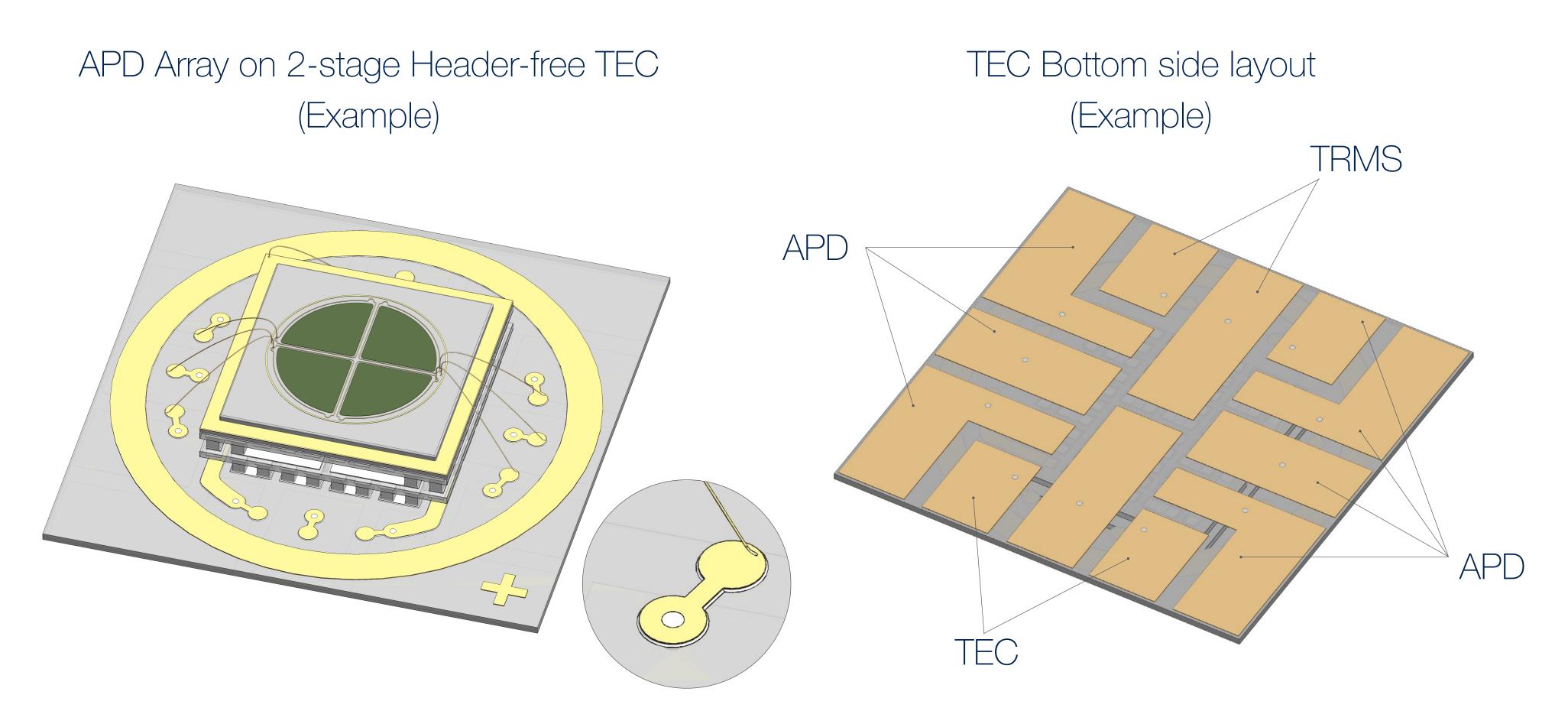
Any TEC can be modified for Header-Free Solution. Flexible configurations for Single APD and APD Arrays

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Header-free TEC Solution for APD Applications (Concept)



Header-free TEC Solution for APD Applications (Concept)



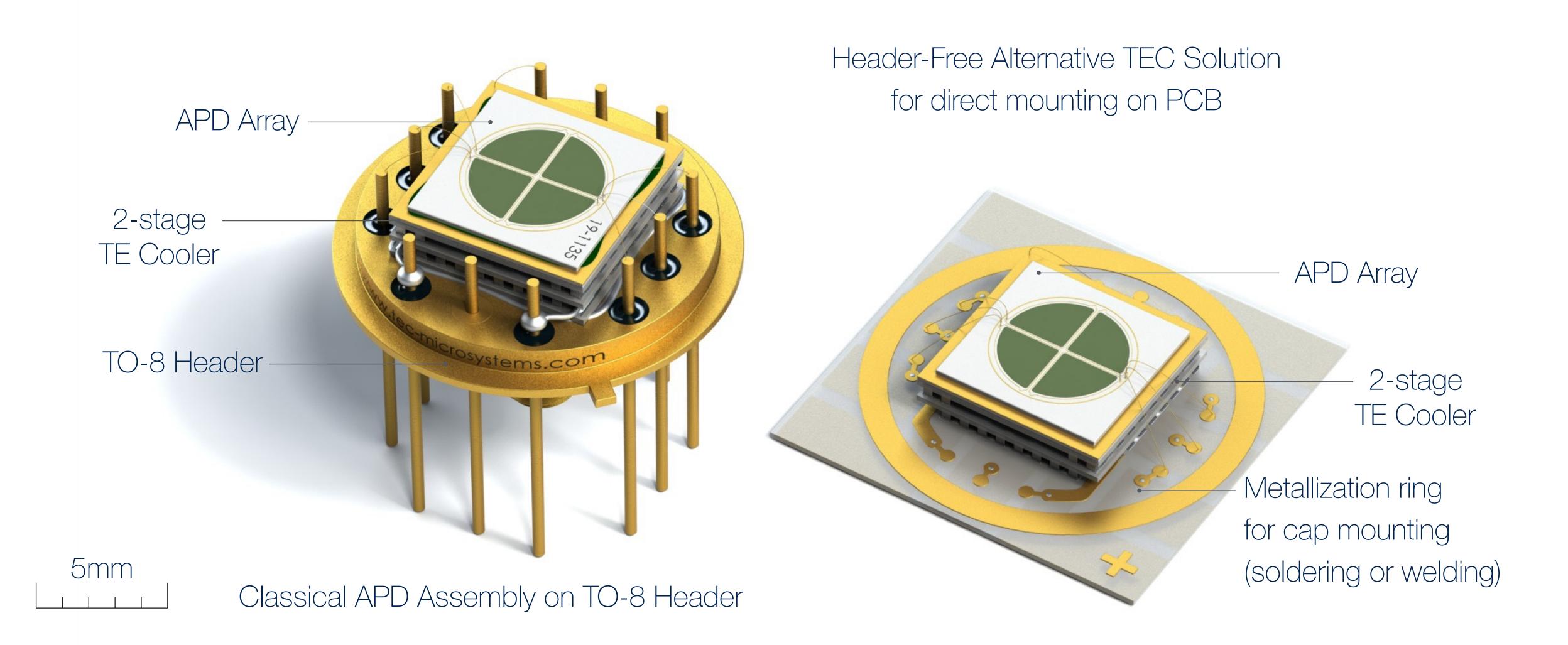
TE Cooler Bottom Ceramics is optimized for SMT mounting using VIAS

SMT TEC surface can be developed in accordance to application requirements (size, number of vias and etc)

Header-free TEC Solution for APD Applications (Example)

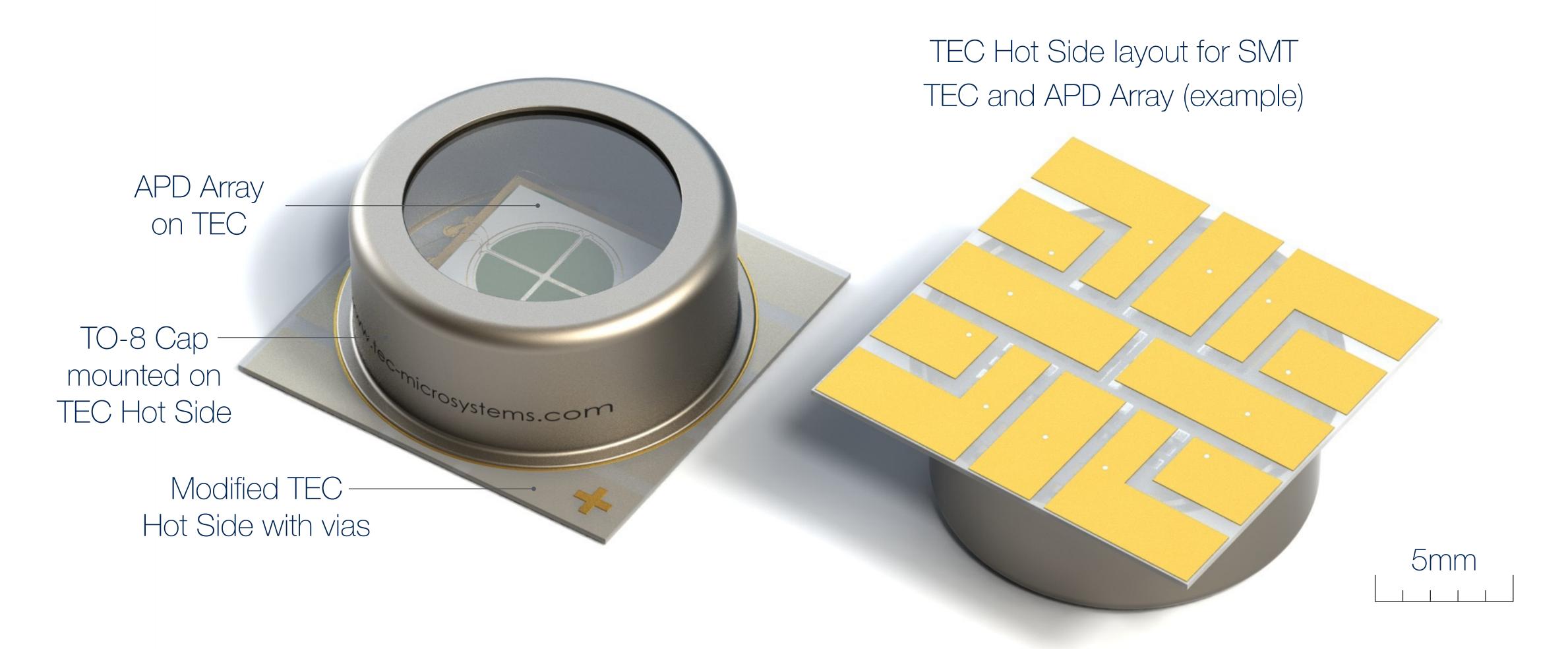


Header-free TEC Solution for APD Applications (Example)





Header-free TEC Solution for APD Applications (Example)



SMT surface can be developed in accordance to application requirements (size, number of vias and etc)