

iFast task 7.5 status

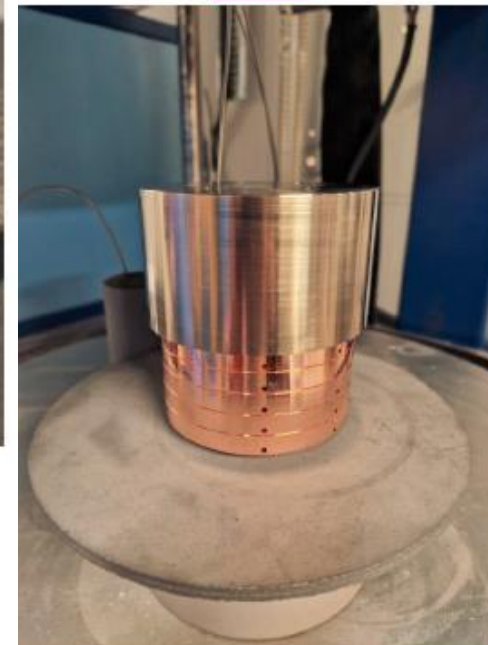
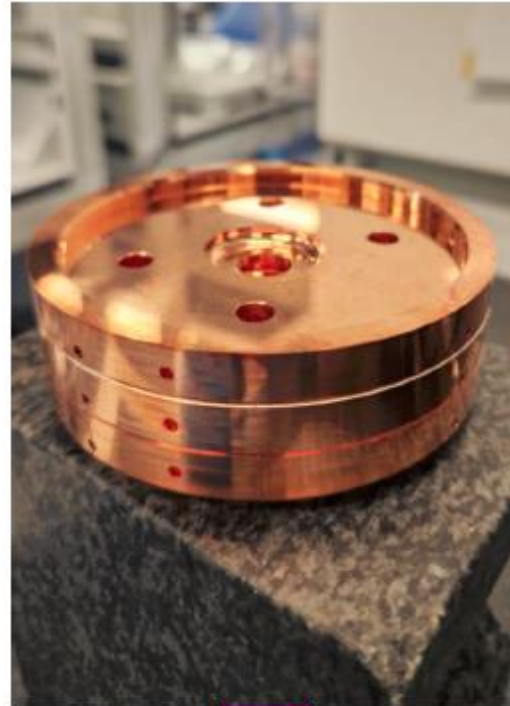
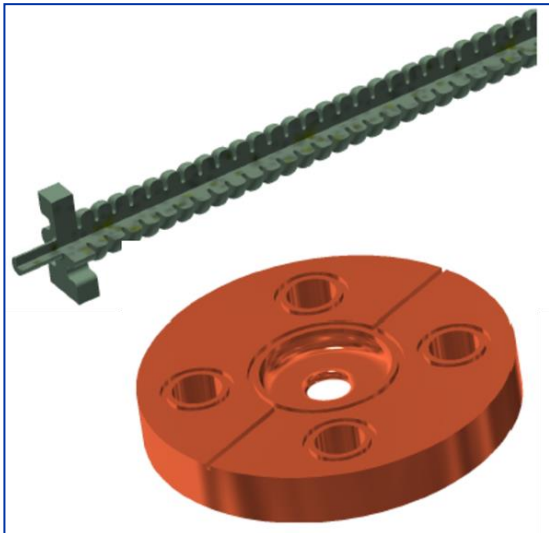
Objective

Build and test two prototypes of the X-band (12 GHz) accelerating structure designed for the CompactLight project.

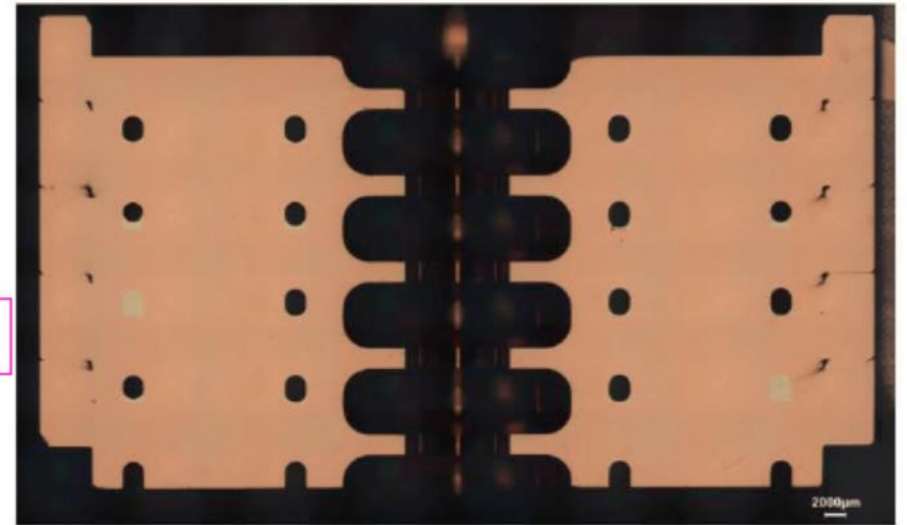
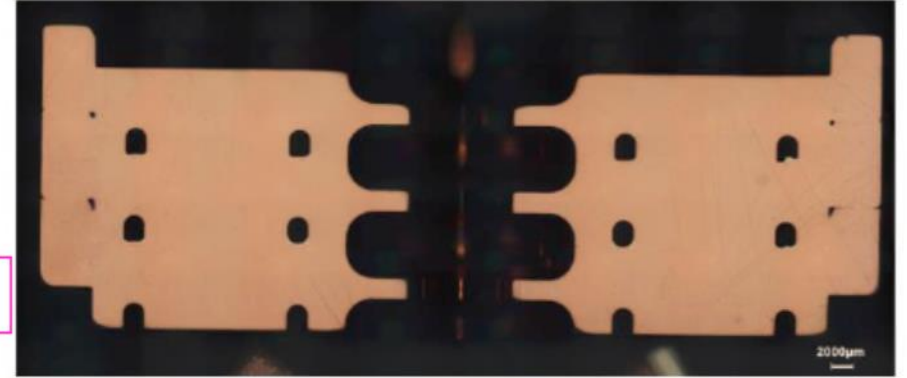
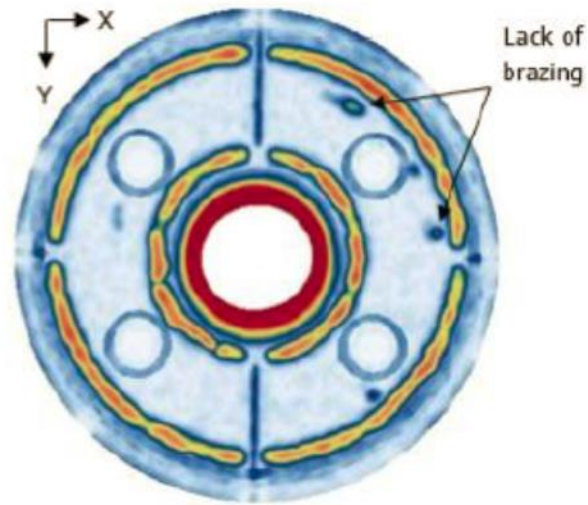
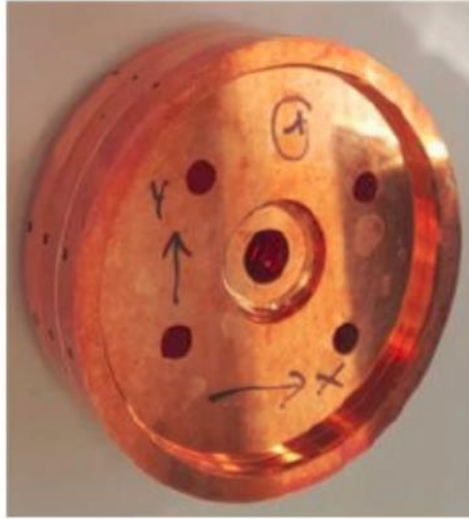
Mockup of the first prototype:

Three trials were carried out under different conditions to check:

- Machinability
- Alignment
- Brazing materials
- Leak tightness
- Weight



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- Performed
- UT analysis,
- microscopy and
- Brazing Filler Material (BFM) inspection.



The alignment and flatness of the structure were kept as expected after the cycle

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First prototype production



**The first structure
will be brazed in January 2024
with low power RF tests
beginning of February 2024.**