

CUSTOM-DESIGN OF MICROWAVE FILTERS

Conception de filtres hyperfréquences à la demande



elliptika

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Core activity

Study, design and development of microwave passive components, mainly filters dedicated to specific applications or custom-made filters

Expertise field / know-how

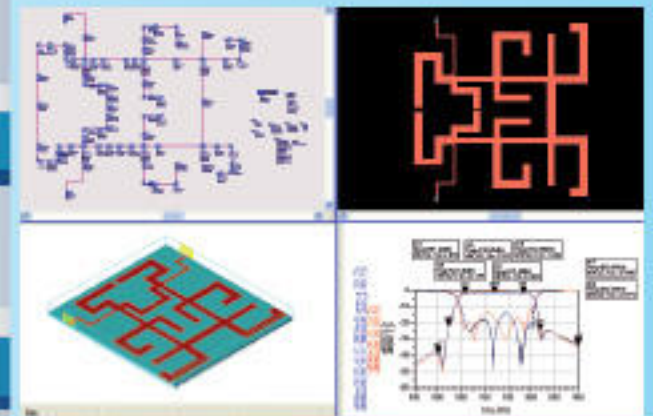
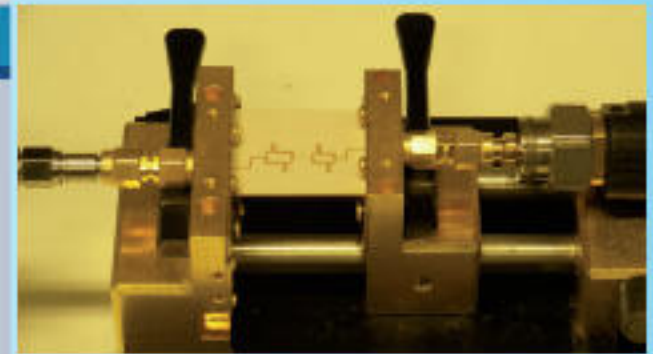
Upstream studies, R&D, simulations

Equipment

Elliptika's simulation resources:

Circuit and electromagnetic (2.5D et 3D) simulators:
ADS, MOMENTUM, EMDS from Agilent Technologies

Possible access to Lab-STICC measurement resources:
Network analyzers up to 110 GHz (Wiltron, Agilent...)
Measurement cells, probe stations





Main achievements

UWB hybrid filters based on a microelectronic technology
Stripline filters and diplexers (12-21 GHz, Ro4350B)
Switchable microstrip filters on Ku-band
Microstrip filters (720MHz) on high permittivity ceramics ($\epsilon_r = 90$ to 140)
Delay-group specified filters



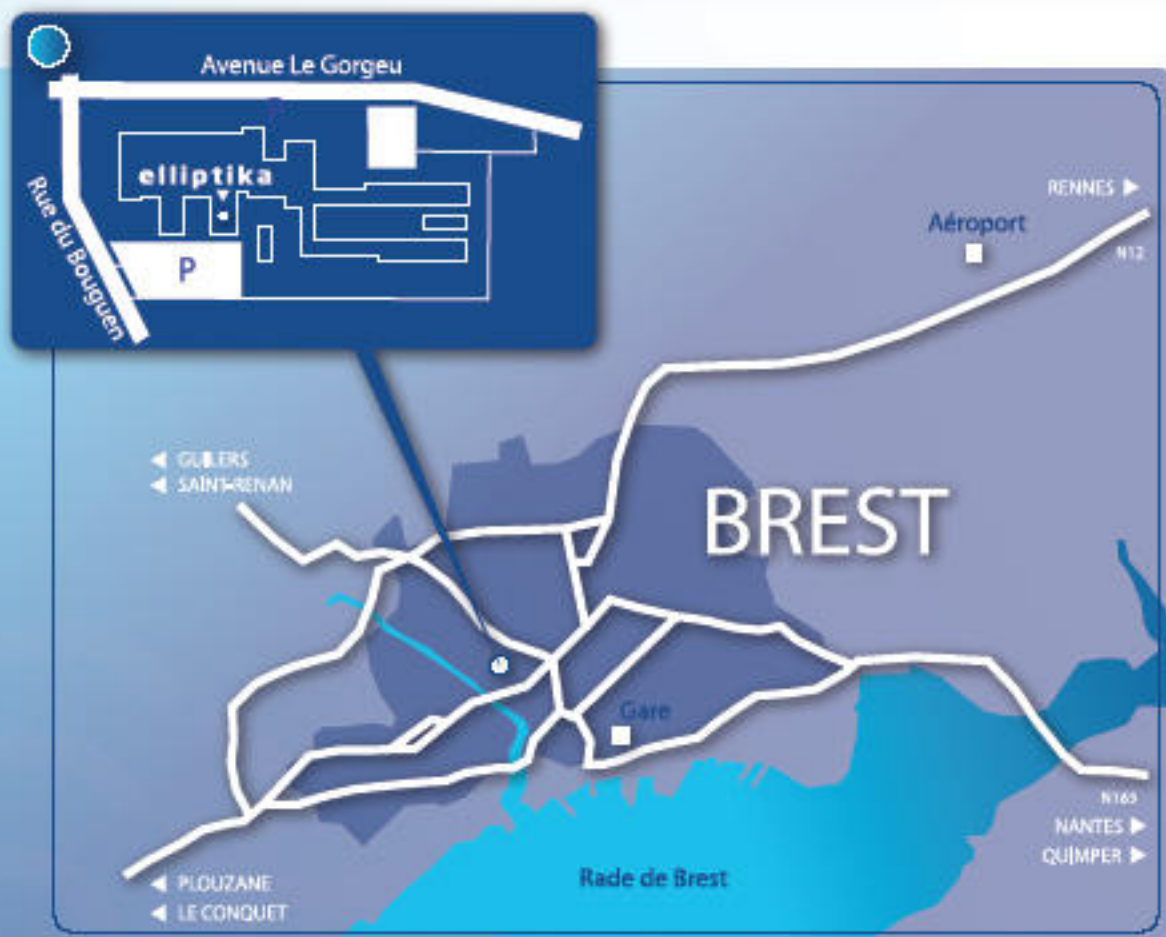
References

CNES, EADS Astrium, Thales Alenia Space, Thales Systèmes Aéroportés...

Partnerships

Agilent Technologies, Cluster IEF Aero, Lab-STICC /UBO, MEITO...





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