

5G SUB-6GHZ

RF FILTERS

DESIGNER & MANUFACTURER OF  
**INNOVATIVE  
SEMICONDUCTOR  
MATERIALS**

Connect POI

SUSTAINABILITY

RELIABLE SUPPLY



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**soitec**

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IN OUR SOIL GROWS AN AMAZING FUTURE

# About us



## NUMBER 1

World-largest manufacturer of engineered substrates



## GLOBAL PRESENCE

With more than 2,000 employees worldwide



## MULTI-SITE

France, Belgium, Singapore, China. Piezo on Insulator (POI) substrates are made in France



## DEFINING NEW INDUSTRY STANDARDS

In mobile connectivity, Automotive & Industrial, and Smart Devices



## IP PROTECTED PORTFOLIO

Soitec places significant value in its intellectual property, including its patent rights

# CONNECT POI PORTFOLIO

## Piezoelectric-on-Insulator engineered substrates for high performance RF filters

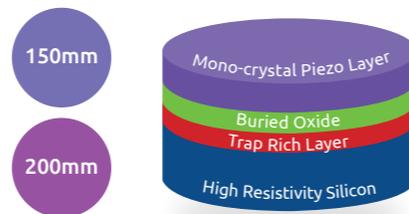
Connect POI product portfolio is leveraging Soitec unique Smart Cut™ technology and RF semiconductor expertise



*The Smart Cut™ process allows multiple recycling of starting material therefore contributing to supply chain efficiency and better sustainability.*

The Smart Cut™ technology allows to obtain thin layers of piezoelectric materials with a perfect crystal quality structure ensuring piezoelectric performances. These layers can be provided with different crystal orientations to support specific design requirements.

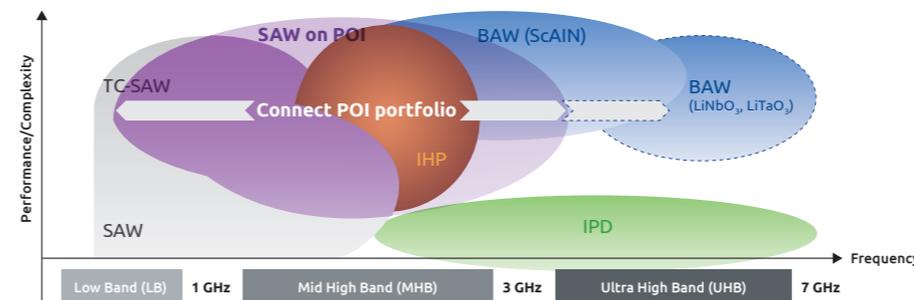
The buried oxide selects and guides only high velocity waves, allowing to limit the losses and to ensure a very high signal selectivity. It also keeps the piezo material constrained against temperature variations, ensuring outstanding frequency stability when temperature changes.



*Connect POI products can be available in 150mm and 200mm size wafers.*

*Smart Cut™ and embedded Trap Rich layer are protected by Soitec IP*

## CONNECT POI PORTFOLIO ENABLES SAW ON POI TECHNOLOGY FOR 5G SUB-6GHZ



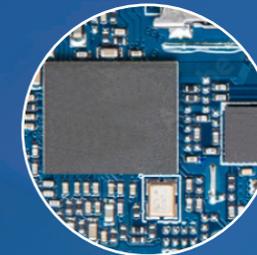
# CONNECT POI

## Markets & Applications



### 4G LTE, 5G SUB-6GHZ RF COMMUNICATIONS

- Smartphones
- Notebooks
- Tablets



### HIGH PERFORMANCE ACOUSTIC DEVICES

- RF filters
- RF multiplexers
- RF FE modules

