

5G SUB-6GHZ

RF FILTERS

DESIGNER & MANUFACTURER OF
**INNOVATIVE
SEMICONDUCTOR
MATERIALS**

Connect POI

SUSTAINABILITY

RELIABLE SUPPLY



Contact us

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soitec

—
IN OUR SOIL GROWS AN AMAZING FUTURE

Design: supernova-design.fr

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

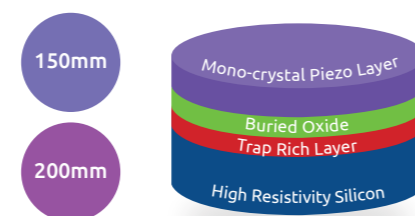
Connect POI product portfolio is leveraging Soitec unique Smart Cut™ technology and RF semiconductor expertise



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.

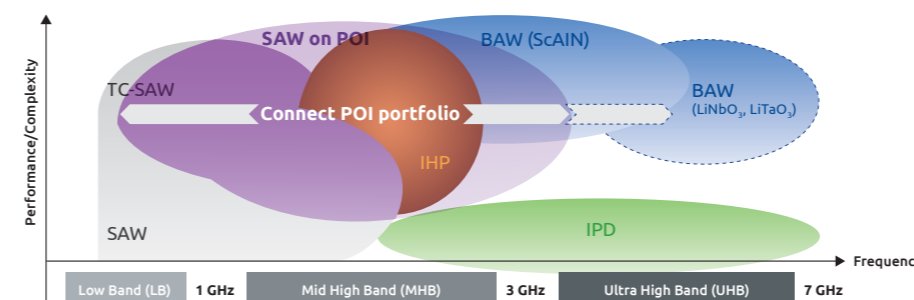
The buried oxide selects and guides only high velocity waves, allowing to limit the losses and to ensure a very high signal selectivity. It also keeps the piezo material constrained against temperature variations, ensuring outstanding frequency stability when temperature changes.



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



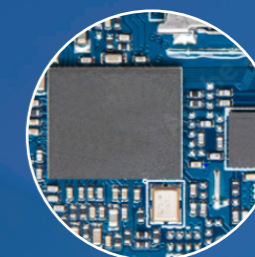
CONNECT POI

Markets & Applications



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

- Smartphones
- Notebooks
- Tablets



HIGH PERFORMANCE ACOUSTIC DEVICES

- RF filters
- RF multiplexers
- RF FE modules

