

## Company Overview

Resonant is transforming the market for RF front-ends (RFFE) by disrupting the RFFE supply chain by enabling customers and partners to deliver 5G filters designed using its WaveX™ software tools platform. WaveX™ allows Resonant customers to capitalize on the company's robust IP portfolio, and extensive services offerings. In a market that is critically constrained by limited designers, tools, and capacity, Resonant addresses these critical problems by providing customers with ever increasing design efficiency, reduced time to market, and lower unit costs. Customers leverage Resonant's disruptive capabilities to design cutting-edge filters and modules, while capitalizing on the added stability of a diverse supply chain through Resonant's WaveX™ Foundry Program fabless ecosystem. Working with Resonant, customers enhance the connectivity of current mobile devices, while preparing for the demands of emerging 5G applications.

The RF front-end industry is undergoing dramatic increases in growth and complexity due to:

- Band proliferation
- Carrier Aggregation (CA)
- Multiple-Input, Multiple-Output (MIMO) antenna design

This increase in complexity will be further accelerated by the transition to 5G.

Through WaveX™, Resonant can create RF filter designs for difficult bands, modules, and other complex RFFE requirements that have the potential to be manufactured with excellent predictability, enabling achievement of the desired product performance in fewer turns through the foundry compared to traditional approaches. WaveX™ is a suite of proprietary mathematical methods, software design tools, and network synthesis techniques that enables the Resonant team to explore a much larger set of possible design solutions that regularly incorporate the company's proprietary technology. Design simulations are then quickly delivered to customers that manufacture devices or have devices manufactured by one of our foundry partners. These improved RF filters still use surface acoustic wave (SAW) or temperature-compensated surface acoustic wave (TC-SAW) manufacturing methods and perform as well as those using higher-cost manufacturing methods such as bulk acoustic wave (BAW). In exploring the use of WaveX™ for BAW, Resonant developed a brand-new BAW resonating structure called XBAR®. XBAR® technology is ideal for emerging 5G mobile devices that need wider bandwidths at higher frequency, and XBAR filters can be manufactured using existing fabrication processes for fast production. Resonant's models are fundamental, easing integration with foundry partners because Resonant's models speak the "foundry language" of basic material properties and dimensions.

## Murata Completes Acquisition of Resonant Inc.

Mar 29 2022, 5:05 PM EDT

## Murata to acquire Resonant for \$4.50 per share in cash

Feb 14 2022, 5:05 PM EST

## Resonant Recognized as One of the Three Leading BAW Filter Innovators Since the Start of 2020

Jan 11 2022, 8:31 AM EST

## Investor Relations

MZ Group

Greg Falesnik or Luke Zimmerman

T: 949-259-4987

[RESN@mzgroup.us](mailto:RESN@mzgroup.us)

## Management Team

**Neal Fenzi**

Fellow

**Dylan J. Kelly**

Chief Operating Officer

**Resonant Inc.**

Resonant Inc.  
1875 South Grant Street  
San Mateo , CA 94402

---

**Disclaimer**

Except for the historical information contained here in, the matters discussed in this document are forward-looking statements that involve risks and uncertainties, including but not limited to business conditions and the amount of growth in our industry and general economy, competitive factors, and other risks detailed from time to time in the Company's SEC reports, including but not limited to its annual reports on form 10-K and its quarterly reports on Form 10-Q. The company does not undertake any obligation to update forward-looking statements. All trademarks and brand name are the property of their respective companies.