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Resonant Inc. Provides Update on Breakthrough XBAR™ Technology for 5G Mobile Devices

- First filters using XBAR™ resonators fabricated
- Presenting latest on XBAR this June at the International Microwave Symposium (IMS) in Boston, MA
- Company will be discussing its breakthrough XBAR technology at Mobile World Congress (MWC) in Barcelona, Spain

GOLETA, Calif., Feb. 11, 2019 (GLOBE NEWSWIRE) -- Resonant Inc. (NASDAQ: RESN), a leader in transforming the way radio frequency, or RF, front-ends are being designed and delivered for mobile handset and wireless devices, provided an update related to its breakthrough resonator technology, XBAR™, which holds the potential for a new class of high-performance RF filters for 5G devices.

“We first introduced XBAR resonators in October of 2018 and have made significant progress,” stated George B. Holmes, CEO of Resonant. “The first filters using our XBAR resonators have been fabricated and current tests of these XBAR filters are demonstrating the capability to handle the wider passbands required for 5G. A key requirement, and critical for the realization and adoption of 5G, is much larger bandwidth capability than is currently available from existing filters. As such, we believe XBAR filters will enable faster adoption of 5G, from sub-6 GHz to up to 30 GHz – an annual market we believe will grow to be more than \$10 billion.”

XBAR Progress to Date

- First filters using XBAR resonators have been fabricated
- XBAR filters are successfully demonstrating greater than 500 MHz bandwidth at 5 GHz
- XBAR filters have a significantly smaller form factor than competing dielectric-based filters

International Microwave Symposium (IMS)

Dr. Victor Plessky, Resonant Director of Engineering at GVR, a wholly owned subsidiary of Resonant, has been invited to present at IMS2019 a paper titled “Laterally excited bulk wave resonators (XBARs) based on thin Lithium Niobate platelet for 5 GHz and 13 GHz filters,” which presents measured data from XBAR resonators. The symposium will take place on June 2-7, 2019 in Boston, Massachusetts.

MWC 2019

Members of Resonant’s management will be attending MWC 2019 in Barcelona from February 25-27 where they will demonstrate the performance of XBAR filters for 5G applications, to potential customers, analysts and media. To arrange a briefing and demonstration of Resonant’s innovative XBAR technology, please [contact us](#).

About Resonant Inc.

Resonant (NASDAQ: RESN) is transforming the market for RF front-ends (RFFE) by disrupting the RFFE supply chain through the delivery of solutions that leverage our Infinite Synthesized Network (ISN) software tools platform, capitalize on the breadth of our IP portfolio, and are delivered through our 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 fabless ecosystem-the first of its kind. Working with Resonant, customers enhance the connectivity of current mobile devices, while preparing for the demands of emerging 5G applications.

To learn more about Resonant, view the series of videos published on its website that explain Resonant's technologies and market positioning:

- [ISN and XBAR: Speeding the Transition to 5G](#)
- [Infinite Synthesized Networks, ISN[®] Explained](#)
- [What is an RF Filter?](#)
- [RF Filter Innovation](#)
- [Transforming the Mobile Filter Supply Chain](#)

For more information, please visit www.resonant.com.

Resonant uses its website (<https://www.resonant.com>) and LinkedIn page (<https://www.linkedin.com/company/resonant-inc-/>) as channels of distribution of information about its products, its planned financial and other announcements, its attendance at upcoming investor and industry conferences, and other matters. Such information may be deemed material information, and Resonant may use these channels to comply with its disclosure obligations under Regulation FD. Therefore, investors should monitor the company's website and its social media accounts in addition to following the company's press releases, SEC filings, public conference calls, and webcasts.

About Resonant's ISN Technology

Resonant can create designs for difficult bands, modules and other complex RF Front End requirements that we believe have the potential to be manufactured for half the cost and developed in half the time of traditional approaches. ISN is a suite of proprietary mathematical methods, software design tools and network synthesis techniques that enable us to explore a much larger set of possible design solutions that regularly incorporate our proprietary technology. We then quickly deliver design simulations to our customers, which they manufacture or have manufactured by one of our foundry partners. These improved solutions 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). Resonant's method delivers excellent predictability, enabling achievement of the desired product performance in roughly half as many turns through the fab. In addition, because Resonant's models are fundamental, integration with its foundry and fab customers is seamless because its models speak the "fab language" of basic material properties and dimensions.

Safe Harbor / Forward-Looking Statements

This press release contains forward-looking statements, which include the following subjects, among others: the capabilities of our XBAR resonators and their market potential. Forward-looking statements are made as of the date of this document and are inherently subject to risks and uncertainties which could cause actual results to differ materially from those in the forward-looking statements, including, without limitation, the following: our limited operating history; our ability to complete designs that meet customer specifications; the ability of our customers (or their manufacturers) to fabricate our designs in commercial quantities; our customers' ability to sell products incorporating our designs to their OEM customers; changes in our expenditures and other uses of cash; the ability of our designs to significantly lower costs compared to other designs and solutions; the risk that the intense competition and rapid technological change in our industry renders our designs less useful or obsolete; our ability to find, recruit and retain the highly skilled personnel required for our design process in sufficient numbers to support our growth; our ability to manage growth; and general market, economic and business conditions. Additional factors that could cause actual results to differ materially from those anticipated by our forward-looking statements are under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our most recent Annual Report (Form 10-K) or Quarterly Report (Form 10-Q) filed with the Securities and Exchange Commission. Forward-looking statements are made as of the date of this release, and we expressly disclaim any obligation or undertaking to update forward-looking statements.

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Source: Resonant Inc.