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Resonant Announces Design for New Band 41 "HiPower(TM)" Now available for Sampling by Mobile Handset Manufacturers

GOLETA, CA -- (Marketwired) -- 11/29/17 -- Resonant Inc. (NASDAQ: RESN), a designer of filters for radio frequency, or RF, front-ends, that specializes in delivering designs for difficult bands and complex requirements, today announced that a state-of-the-art Full-Band, Band 41 filter capable of extremely high power operation is now available for sampling from one of its early customers.

This new design is a complement to the previously announced Full-Band, Band 41 filter that was designed to address the challenging requirements of the Chinese market; specifically, applications where high power and low loss are critical. This new part meets the high power handset requirements for both U.S. and China carriers, and due to its ultra-performance, may also be suitable for network infrastructure applications.

The Band 41 filter, with HiPower performance relative to the previously designed Band 41 TDD filter, is considered to be one of the most challenging and complex filters to design. This specialized design requires extremely large bandwidth at 194MHz, as well as the rejection of neighboring WiFi bands to prevent interference, allowing the co-existence of cellular with WiFi. The two key performance metrics that were improved in the HiPower design are *lower loss*, which increases battery life, and *higher power durability*, which enables increased coverage.

This new part is being made available by one of our ISN foundry partners who has branded the new filter design and is offering it for OEM sampling and immediate mass production. A Full-Band 41 design allows a single solution to cover the entire operating band, enabling an individual SKU for a global phone model.

"This new Band 41 HiPower design delivers significantly enhanced performance over the Band 41 TDD design we announced at the end of October, providing for a single worldwide SKU," said George Holmes, CEO of Resonant Inc. "Further, we believe the rapid deployment of new and improved designs demonstrates the power of our ISN platform, as well as the value our customers find when using Resonant's technology. Using our cutting edge software and the exceptional capabilities of our team, we are able to produce unique designs that employ different processes for varying applications and price points. We believe we have a sound business model with Resonant's ISN Foundry Program, which will continue to blaze new trails in the filter market."

The following table compares the maximum power capability across the full bandwidth of the Band 41 HiPower filter to the previously released Band 41 filter. The improvement is greater

than a factor of 2 from an already impressive high power performance. Also shown in the table is the improved loss.

Test Frequency	Current Band 41 FB (194MHz) Max power (dBm)	HiPower Band 41 FB (194MHz) Max power (dBm)	Improvement (dB)	Current Band 41 FB (194MHz) Insertion Loss (dB)	HiPower Band 41 FB (194MHz) Insertion loss (dB)
Low Frequency Band Edge	34.7 (2.9W)	39.2 (8.3W)	4.5	3.6	3.4
Center	35.2 (3.3W)	39.2 (8.3W)	4	1.6	1.4
High Frequency Band Edge	31.8 (1.5W)	36.1 (4.1W)	4.3	2.7	2.1

About Resonant Inc.

Resonant is creating software tools and IP & licensable blocks that enable the development of innovative filter designs for the RF front-end, or RFFE, for the mobile device industry. The RFFE is the circuitry in a mobile device responsible for the radio frequency signal processing and is located between the device's antenna and its digital baseband. Filters are a critical component of the RFFE that selects the desired radio frequency signals and rejects unwanted signals and noise. For more information, please visit www.resonant.com.

About Resonant's ISN® Technology

Resonant can create designs for difficult bands and complex requirements that we believe have the potential to be manufactured for half the cost and developed in half the time of traditional approaches. The Company's large suite of proprietary mathematical methods, software design tools and network synthesis techniques enable it to explore a much bigger set of possible solutions and quickly derive the better ones. These improved filters still use existing manufacturing methods (i.e. SAW) and can perform as well as those using higher cost methods (i.e. BAW). While most of the industry designs surface acoustic wave filters using a coupling-of-modes model, Resonant uses circuit models and physical models. Circuit models are computationally much faster, and physical models are highly accurate models based entirely on fundamental material properties and dimensions. 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 eased 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 family of Band 41 filters and our software and personnel. 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; 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.