



For Immediate Release

RJR Technologies Announces Shipment of over 10 Million Air Cavity Plastic (ACP) Packages

Milestone Highlights Growing Migration from Air Cavity Ceramic (ACC) to ACP Packaging in RF Applications

Oakland, Calif., May 3, 2016 – [RJR Technologies](#), a leading developer of high performance Air Cavity Plastic (ACP) packaging, announced today that it has shipped over 10 million [ACP packages](#). As a high volume manufacturer of semiconductor packaging for RF and microwave markets, RJR’s milestone reflects the increasing use of plastic packages in high performance, high frequency RF applications.

“Basestation manufacturers in today’s highly competitive wireless infrastructure market are constantly seeking solutions that support higher linearity, higher average output power, and wider operating bandwidths while driving down costs,” said Wil Salhuana, President and CEO of RJR Technologies, Inc. “With our rising volumes of shipments, semiconductor manufacturers clearly recognize that ACP packages offer a compelling combination of high performance, low cost and faster time-to-market over traditional ACC packages.”

Better CTE Matching, Thermal Management

Based on RJR’s Liquid Crystal Polymer (LCP) technology, ACP packages feature an air cavity structure similar to a ceramic package to maximize electrical isolation of the silicon die. These packages employ an insert-injection molding process that combines a metal alloy lead frame with a LCP sidewall and matching lid with a pre-applied B-staged epoxy. The use of a lower temperature, compliant epoxy makes the package independent of the flange allowing manufacturers to use any of a wide variety of base/flange materials to meet specific CTE matching and thermal management requirements. As a result, ACP is the only packaging technology that allows designers to use lower cost, higher conductivity copper bases.

“By reducing thermal resistance and parasitic effects, our packaging supports higher levels of performance than existing ceramic packages while delivering the low cost and shorter development cycle of a plastic package,” explained Salhuana. “Manufacturers that simply replace ceramic packages featuring an expensive composite-type metal base with our ACP2 with a copper base can reduce the packaging costs of RF power transistors by as much as 50 percent while improving thermal dissipation by 30 percent.”

RJR Technologies has also begun to offer industry-standard QFN packages using its Liquid Crystal Polymer technology. “Our industry standard plastic packages promise to deliver similar benefits over the next few years to system developers in the Gallium Nitride market and in emerging applications such as automotive ignition systems, lighting and consumer microwave appliances,” said Salhuana.

RJR Technologies will display its innovative RF and microwave packaging technology at the [IEEE International Microwave Symposium](#) (IMS2016), booth number 2146, from May 22 – 27 in San Francisco.

About IMS2016

Organized by the IEEE Microwave Theory and Technique Society (MTT-S), the IEEE International Microwave Symposium is the premier conference for engineers interested in learning about the latest developments in the RF and microwave industry. IMS2016 will be held at the Moscone Center in downtown San Francisco May 22 – 27. The IMS2016 mission is to offer attendees a rich and valuable experience by serving as a forum for the presentation of technical papers on state-of-the-art RF and microwave-related topics, by exhibiting the latest products and technologies, and by offering networking opportunities with peers and experts.

About RJR Technologies

RJR Technologies, Inc. is a developer and high volume manufacturer of Air Cavity LCP semiconductor packaging, epoxies, epoxy-coated lids and sealing equipment. The company’s patented, injection-molded Liquid Crystal Polymer (LCP) packaging technology offers superior performance and design flexibility at lower cost than traditional ceramic and over-molded plastic packaging solutions. At the same time the company’s standard product lines significantly shorten time-to-market. RJR Technologies is a privately-held company based in Oakland, California. For more information, please visit the company’s website at www.rjrtechnologies.com

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Contacts:

Company	Agency
Karen Lynch	Matthew Quint
Director of Sales and Marketing	Principal
RJR Technologies	Quint PR for RJR Technologies
+1 510 566-1794	+1 650 218-0763
klynch@rjrtechnologies.com	mquint@quintpr.com