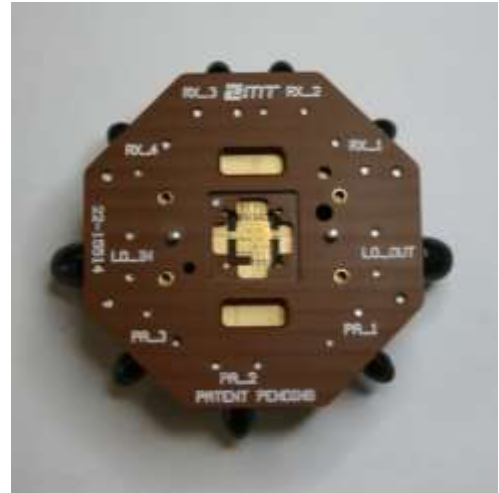


## **Multitest's Unique Interface Solution for Ultra-High Frequency Testing Delivers Unprecedented Life-Time in Volume Production mmWave customer case presented at Test Vision**

*St. Paul, MN (USA), November 2017:* Multitest's mmWave contactor is a proven broadband production solution for RF applications up to 100GHz. In a presentation by Jeffrey Finder, Senior Product and Test Engineering Manager at NXP, named "Building a Test Ecosystem for High Volume Manufacturing of 76-81GHz Semiconductor Radar Sensors" the repeatable and stable performance of Multitest's mmWave contactor was highlighted for an Automotive Radar Sensor Chipset application. This presentation was given at the Test Vision 2020 workshop at Semicon West in July 2017. (Download the full presentation here: [http://xcerra.com/ep\\_buildingatestecosystemforhighvolumemanufacturing](http://xcerra.com/ep_buildingatestecosystemforhighvolumemanufacturing) )



As stated in the presentation, NXP has been using the mmWave contactor in production since Q3 of 2016. In the presentation Jeffrey stated that a recent modification in the materials of the mmWave contractor biasing element translated to a 400% increase in the number of insertions for production testing of their 76-81GHz radar sensor. Multitest has implemented this new biasing element material in the mmWave contactor after thorough internal lab testing leveraging the long-term experience and expertise in contactor design and production. The new material has shown to last more than 5 million actuations with minimal wear and without degradation in spring force.

Multitest has more than seventy five mmWave contactors in the field testing automotive radar and WiGig application devices, including RF transceivers, high gain amplifiers, LNAs, filters, switches, DACs, and ADCs. The mmWave contactor utilizes hybrid

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contacting technology to optimize RF performance and provide robustness for production testing of the most challenging mmWave devices. Inside the mmWave contactor, RF signals and adjacent grounds are routed on a leadframe, while the rest of the DUT I/O are contacted by standard pogo pins. The number of interconnects between the DUT and tester are minimized for RF signals through the use of co-planar waveguide structures on the leadframe that make direct connection with the DUT and bypass the PCB with either a coax connector and cable or waveguide to interface directly with the tester.

Dan Campion, Director of Business Development for the Interface Products Group, comments: "We are working closely with our customers to understand their most challenging test requirements and for opportunities to continuously improve our solutions. The enhanced life time of our mmWave contactor enables our customers to increase equipment utilization and OEE. Today customers report our mmWave contactor overall lifetime up to 1,500,000 insertions in production test with an automated handler, which is a testament to the robustness of our solution."

To learn more about the Multitest mmWave Contactor family, visit  
[www.multitest.com/mmWave](http://www.multitest.com/mmWave)

## **About Multitest:**

Multitest (headquartered in Rosenheim, Germany) is one of the world's leading manufacturers of semiconductor material handling equipment and interfaces for the testing and calibration of semiconductors and sensors. Multitest markets a broad portfolio of innovative and performance driven test handlers and contactors. Multitest has more than 30 years of experience in the semiconductor industry, providing solutions to the automotive, consumer, communication, and sensor markets. Multitest is a company of Xcerra™ Corporation, which provides capital equipment, interface products, and services to the semiconductor, industrial, and electronics manufacturing industries. Xcerra Corporation offers a comprehensive portfolio of solutions and technologies, and a global network of strategically deployed applications and support resources. Additional information can be found at [www.multitest.com](http://www.multitest.com) and [www.Xcerra.com](http://www.Xcerra.com)

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