

### **PCB Production Insertion Loss Testing with Delta-L 4.0 Method: Polar Atlas for Anritsu**

— *Solution Simplifies Production Testing of PCB Insertion Loss to 43 GHz* —

**Morgan Hill, CA – February 4, 2021** – [Polar Instruments Ltd](#) and Anritsu Corporation introduce a solution for the production testing of PCB insertion loss. Atlas for Anritsu vector network analyzers (VNAs) is especially focussed on material qualification and the test of high-speed serial data busses at the PCB fabrication level and combines Atlas insertion loss test and data logging software with the [Anritsu MS46524B-043](#) 43.5 GHz VNA. The combination of the industry-standard Atlas test environment with Anritsu’s renowned [ShockLine™ VNA](#) technology delivers new standards in accuracy and ease-of-use when production testing PCBs for insertion loss at the fabrication level.

“Combining the Polar Atlas test software environment with the unprecedented value of the Anritsu ShockLine VNA brings 43 GHz insertion loss testing within reach of leading PCB fabricators,” explains Neil Chamberlain, Signal Integrity Product Manager at Polar. “One of the key strengths linking Polar Atlas software with the ShockLine VNA is the delivery of a familiar measurement environment for fabricators accustomed to the Polar CITS and Atlas user interface for the test of high-speed PCB characteristics during and immediately post fabrication.”

“Our collaboration will leverage the advanced technologies of the ShockLine VNAs with Polar Instruments’ measurement software to develop an efficient VNA-based solution that addresses current and future Delta-L test needs for emerging PCB designs,” said Stan Oda, Anritsu ShockLine VNA Product Manager.

Atlas is part of a suite of signal integrity measurement, documentation, and modeling tools from Polar, enabling OEM PCB specifiers and fabricators to accurately communicate PCB signal integrity requirements across the supply chain. Polar develops tools for designing and communicating layer stackup through to tools for both modeling and measuring characteristic impedance and insertion loss. Atlas for Anritsu VNA helps close the loop with the metrology side of the equation for ultra-high-speed signaling applications whilst Si9000e and Speedstack Si provide modeling and documentation to ensure that PCBs are produced with the highest possible yields from a high-speed perspective.

For further information, please contact your local Polar office; contact details may be found on [polarinstruments.com](http://polarinstruments.com). Further product information and technical tips are on the Polar YouTube channel [www.youtube.com/polarinstruments](http://www.youtube.com/polarinstruments).

### **About Polar Instruments**

Polar Instruments is a market leader in designing and manufacturing tools to simplify and enhance the design, fabrication documentation and testing of printed circuit boards (PCBs). Polar's innovative tools include the industry standard Controlled Impedance Test System (CITS) and Atlas which provide the global PCB industry with easy to use test system for high-speed digital and RF boards, as well as class-leading tools for fast and accurate design and testing of controlled impedance in PCBs. Polar also leads the industry in tools for PCB layer stackup design and documentation. Established in 1976 Polar has operations and channel partners in the US, UK, Europe and Asia Pacific. The Polar logo and pixelated strip are copyright Polar Instruments Ltd.

### **About Anritsu**

Anritsu Company is the United States subsidiary of Anritsu Corporation, a global provider of innovative communications test and measurement solutions for 120 years. Anritsu's "2020 VISION" philosophy engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. The company develops advanced solutions for 5G, M2M, IoT, as well as other emerging and legacy wireline and wireless communication markets. With offices throughout the world, Anritsu has approximately 4,000 employees in over 90 countries.

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