

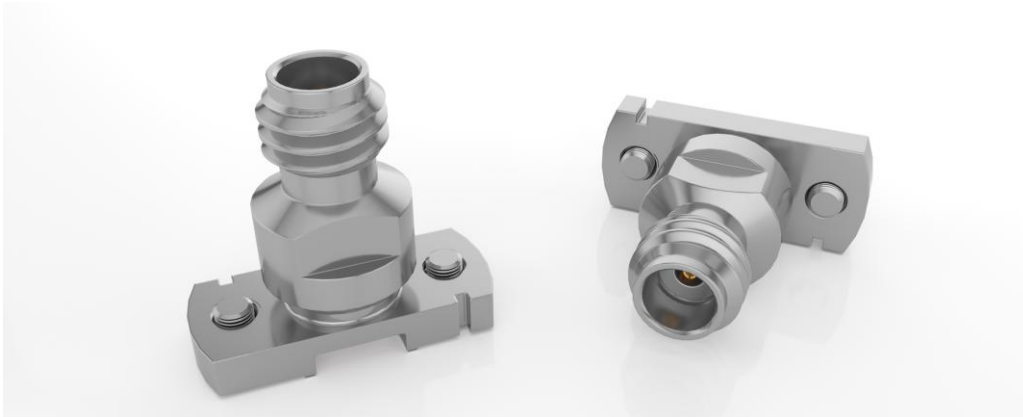


FOR IMMEDIATE RELEASE

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Samtec 1.0 mm Connectors Capable of DC to 120 GHz

New Albany, IN — Samtec, Inc., the service leader in the connector industry, announces the release of its 1.0 mm vertical compression mount board connector, the [100-CM Series](#). Designed for next-generation millimeter-wave test and measurement applications for W-band and into D-band (DC to 120 GHz), the 100-CM's wide performance margin delivers greater reliability, precision, and repeatability through upper-limit frequencies without having to transition to complex waveguides or more expensive 0.8 mm equipment.



The solderless compression mount design enables field-replaceable functionality and layout flexibility by allowing the connector to be used in a range of PCB locations. Unlike soldered board interfaces, compression mount technology helps simplify installation, replacement, and evaluation while supporting repeatable millimeter wave performance.

Another key differentiator of Samtec's 100-CM Series compression-mount interconnect is its [alignment features](#). Alignment grooves milled into the connector foot, paired with fiducials on the PCB, ensure the alignment pin is centered on the landing pad. This precise positional accuracy facilitates peak connector performance and optimal signal integrity. Performance is specified at a VSWR of 1.25:1 from DC to 40 GHz, 1.4:1 from 40 GHz to 110 GHz, and 1.6:1 from 110 GHz to 120 GHz, including microstrip PCB launch.

Samtec 1.0 mm vertical compression mount jacks mate with 1.0 mm [low-loss flexible microwave cable assemblies](#), including Samtec's proprietary and highly stable-over-flexure Nitrowave® cables ([LL095](#) and [LL110](#) Series). Nitrowave cable's novel construction, including a Dynamic Performance Layer (DPL), supports reliable, repeatable measurements in demanding lab environments.

At millimeter-wave frequencies, connector launch design becomes increasingly critical. Samtec offers signal integrity support, including board launch optimization, e-field simulation, and 3D modeling, to help ensure maximum system performance. Contact RFgroup@samtec.com for RF launch optimization and design support.

The extended frequency range of Samtec's 100-CM connectors provides engineers additional margin when developing and validating advanced RF, microwave, and high-speed digital systems. To review specifications, access 3D models and test reports, or to place an order, visit samtec.com/100-CM.

About Samtec, Inc.

Samtec is a \$1 billion global manufacturer of a broad line of electronic interconnect solutions, including High-Speed Board-to-Board, High-Speed Cables, Mid-Board and Panel Optics, Precision RF, Flexible Stacking, and Micro/Rugged components and cables. With 40+ international locations and products sold in more than 125 countries, Samtec's global presence enables its unmatched customer service. Samtec delivers next-generation, high-quality interconnect solutions for the datacom, industrial, military/aerospace, medical, computer, semiconductor, instrumentation, and automotive industries, among others. For more information, please visit: www.samtec.com

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