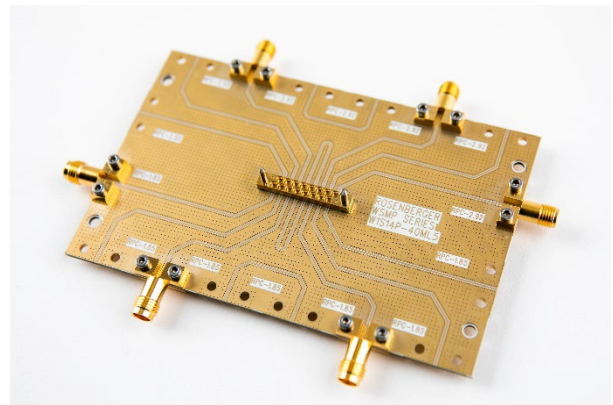


## Printed Circuit Board (PCB) Footprint Optimization

### A new application note has been written on Rosenberger's PCB Footprint Optimization service

This application note describes the Printed Circuit Board (PCB) Footprint Optimization service that Rosenberger offers. The PCB Footprint optimization service has been offered by Rosenberger for many years and has demonstrated itself to be a valuable, time saving service for our customers. The purpose of this application note is to assist our customers when they have a footprint optimization need/application.



Rosenberger North America offers a Printed Circuit Board (PCB) footprint optimization service to its customers. The PCB footprints are used to optimize the Radio Frequency (RF) performance of our PCB connectors for a specific PCB application. Rosenberger may justify waiving the service fee if the business case can be made and typically requires 2 to 3 weeks to complete, depending on the workload of our signal integrity group, the complexity of the design and other non-technical factors.

This article concentrates on clarifying the following:

- What a standard connector footprint is, where and when it may be used, and the standard footprint's potential limitations.
- Typical assumptions that could be made by a connector manufacturer when designing a new RF connector.
- Basic characteristics of an optimized footprint, what data is needed from the customer to generate the footprint, and the overall process Rosenberger uses for generating a custom footprint.
- A brief glossary of terms that are commonly used in custom footprint and simulation discussions.

At the end of this applications note, four (4) of the common PCB transmission line layout styles are listed.

Download the Application Note [here](#) to learn more.

### About Rosenberger North America

Rosenberger North America is a wholly owned subsidiary of the Rosenberger Group, which was founded more than 25 years ago in Pennsylvania. As an industry leader, Rosenberger provides a wide range of

standardized and proprietary connectivity solutions to a variety of customers across multiple industries and market segments.

## **About Rosenberger**

Rosenberger is one of the world's leading manufacturers of impedance-controlled and optical interconnect solutions in high-frequency, high-voltage and fibre-optic technology.

The product range covers RF coaxial connectors, components and accessories, RF measurement products as well as cable assemblies for mobile communication networks, data centres, industrial test & measurement, automotive electronics as well as for high-voltage contact systems, medical and industrial electronics as well as aerospace engineering. The custom machining division manufactures customer-specific precision parts from all machinable materials for various industries such as the automotive and commercial vehicle industry, ship building or classic mechanical and plant engineering.

Worldwide, the Rosenberger Group operates manufacturing and assembly locations as well as Rosenberger sales offices in Europe, Asia and North and South America where – in total – approx. 14,800 employees develop, produce and sell our products. In 2021, the Rosenberger Group achieved global sales of 1.503 billion €. Rosenberger Hochfrequenztechnik GmbH & Co. KG with its headquarters in Fridolfing/Germany, where more than 2,900 people are employed today, was founded in 1958 and has been family-owned ever since.

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