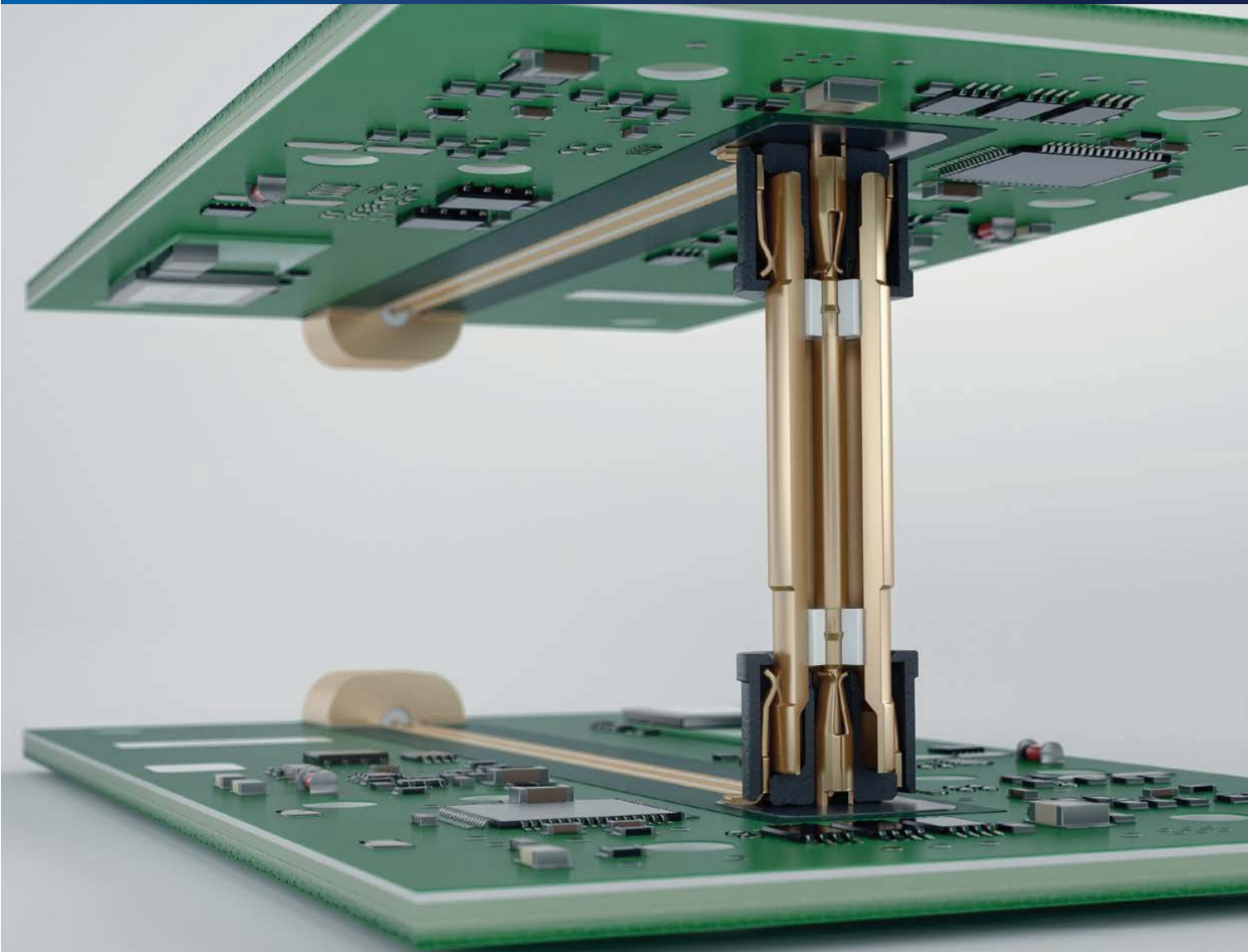


Advanced Board-to-Board Connector

VIA[®] – Variable Interface Adaptor

COMMUNICATION





Company Profile

About Rosenberger

Rosenberger is one of the worldwide leading suppliers of controlled impedance and optical connectivity solutions, system components for mobile communications networks, data centers and test & measurement as well as high voltage contact systems. The Rosenberger Group operates manufacturing and assembly locations in over 10 countries as well as a global sales network.

Rosenberger Communication

The Rosenberger Communication Business Area designs, manufactures and provides solutions for the communication market. In close cooperation with our customers our offering is the complete product development from the first idea to volume production.

As part of the Rosenberger Group we use the synergies of research and development, purchasing, production and sales know-how and resources around the world.

The Rosenberger Group is used to handle small and large production volumes utilizing our global manufacturing infrastructure.

Quality and Environment

Rosenberger's quality philosophy is not just to optimize components and products, but to continuously improve and optimize all processes to ensure customer satisfaction: From product development, planning, procurement, production, sales, logistics and services to environmental policy. In summary, to offer maximum benefits to our customers all over the world.

Our quality responsibility includes being proactive in protecting our environment and natural resources. We endeavour to avoid any environmental pollution, even beyond the requirements of legal regulations whenever possible.



VIA® – Variable Interface Adaptor

The Efficient Board-to-Board Connection Solution

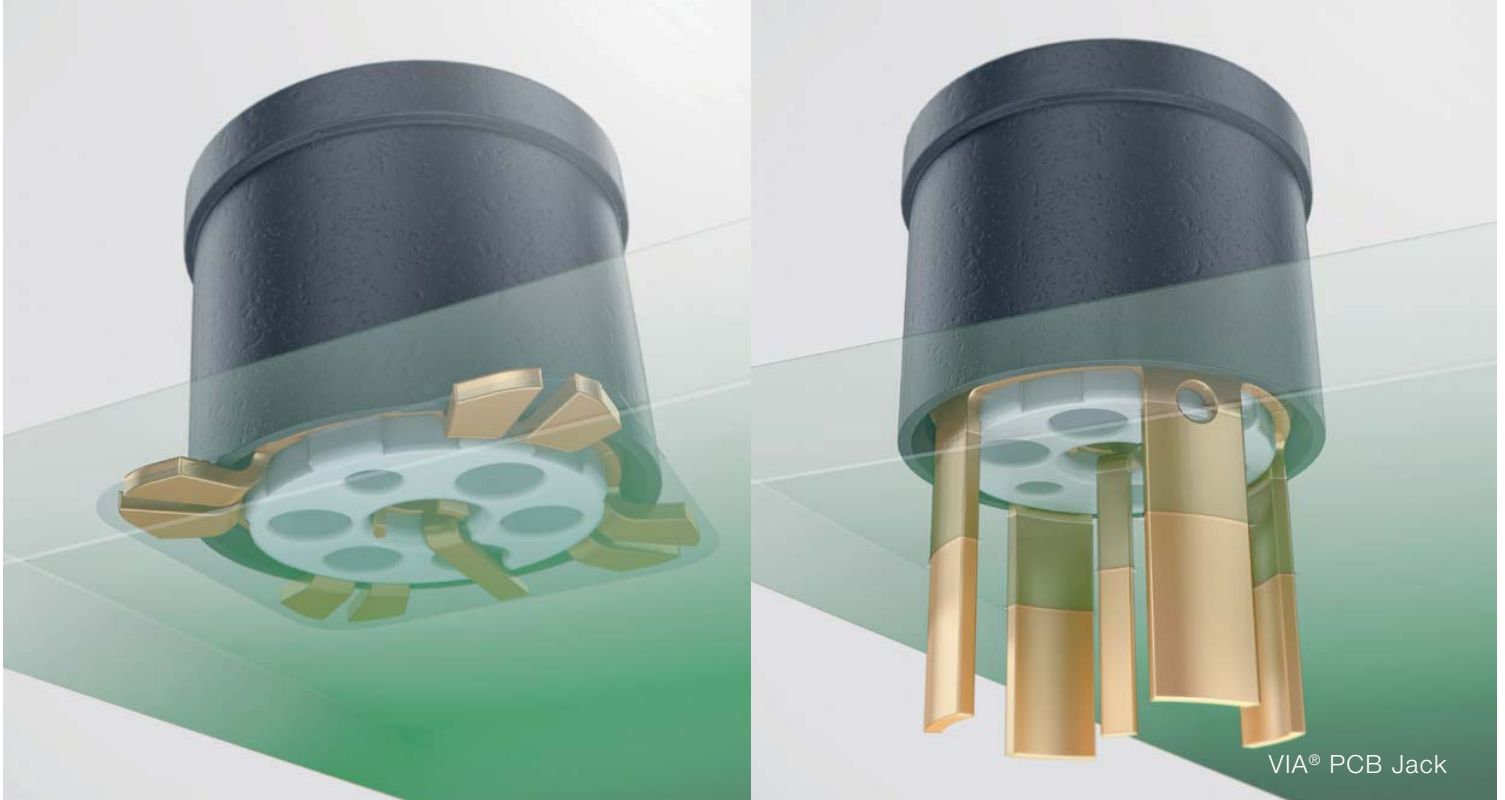
Rosenberger series VIA® is designed for board-to-board and board-to-module RF interconnections. The enhancement of the mechanical design is outstanding: limited detent and smooth bore interfaces are integrated into the adaptor – one side of the bullet is responsible for limited detent, the other side for smooth bore.



Our Rosenberger Online Catalog contains the current VIA® product range with specific details, including data sheets, assembly instructions and panel piercings.

VIA® Advantages

- VIA® combines all advantages of board-to-board connections (SMP, Longwipe-SMP, P-SMP, MBX)
- Reliable, advanced & secure connection due to catch mechanism inside the board-to-board connection
- Blind mateable – assembling of modules is fast and save
- PCB-connector is available with pre-assembled enhanced funnel or the enhanced funnel can easily be field assembled by the customer
- Detent or smooth bore side is defined by the adaptor, due to identically constructed PCB-connectors
- Short board-to-board distance
- Compensating misalignment
- Available as SMD / THT



VIA® – Covering all the Board-to-Board Requirements

VIA® – Board-to-Board Connection

Product Range

The Rosenberger VIA® is covering all the requirements for multiple connections and complex mobile communication solutions in remote radio heads (RRHs) as well as in various other applications.

VIA® Performance

Electrical Performance

- Frequency range: DC to 6 GHz
- Power: 100 W @ 2.2 GHz @ 25 °C
- Return Loss: ≥ 32 dB (typ.) depending on axial misalignment
- RF leakage: ≥ 70 dB @ DC to 6 GHz

Mechanical Performance

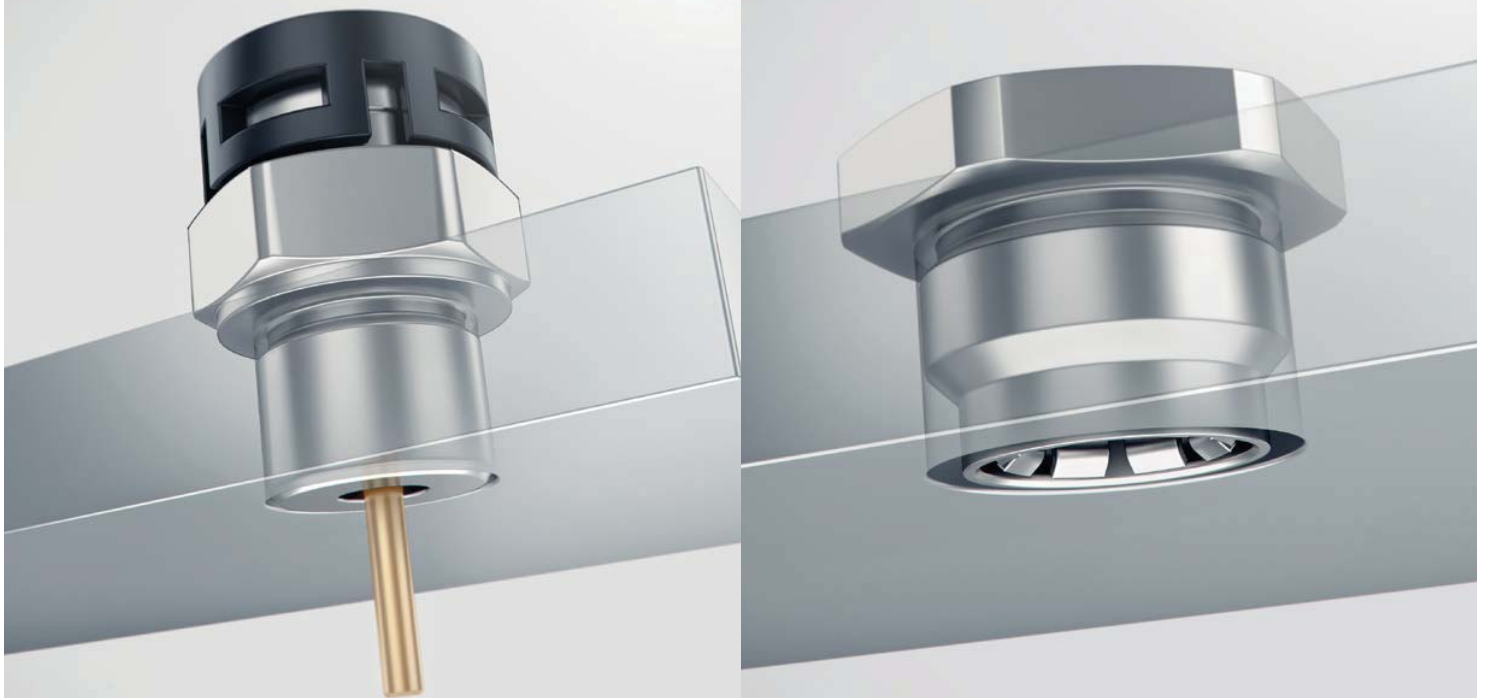
- Minimum board-to-board distance: 12 mm
- Pitch: > 6.5 mm
- Axial tolerance: ± 1 mm
- Radial tolerance:
 - 4°: board-to-board distance < 16.5 mm
 - 0.6 mm: board-to-board distance > 16.5 mm

Materials

- Center contact: Berylco 14 – AuroDur®
- Outer contact: Berylco 14 – AuroDur®
- Dielectric: Grivory XE 4063
Sumikasuper
PTFE

VIA® PCB Jack

Rosenberger No.	Order No.	Description
B2BK101-40ML5	300764	Straight Jack PCB
B2BK102-40ML5	314194	Straight Jack PCB
B2BK103-40ML5	314880	Straight Jack PCB
B2BK141-40ML5	315523	Straight Jack PCB
B2BK101-400L5	311364	Straight Jack PCB



VIA® Bulkhead Jack (special purpose solution)

VIA® – Unique Catch Mechanism Inside the Adaptor

VIA® Bulkhead Jack (special purpose solution)

Rosenberger No.	Order No.	Description
B2BK601-500L5	309200	Bulkhead Jack – screw in
B2BK602-500L5	319894	Bulkhead Jack – press in

Adaptor VIA® – VIA®

Rosenberger No.	Order No.	Length [mm]	Board-to-Board-Distance [mm]
B2BS101-S07L5	319902	8.50	12.00
B2BS101-S02L5	309201	10.00	13.50
B2BS101-S04L5	311945	11.00	14.50
B2BS101-S03L5	311369	18.80	22.30
B2BS101-S01L5	300750	20.25	23.75

Adaptor VIA® – SMA

Rosenberger No.	Order No.	Description
B2BS132-K00L5	319060	Adaptor VIA® (male) – SMA (female)
B2BK132-K00L5	319061	Adaptor VIA® (female) – SMA (female)

VIA® Cable Connector

Rosenberger No.	Order No.	Description
B2BS101-271L5	318626	Straight Cable Connector Cable Flex 405 (Rosenberger Cable Group 71)
B2BS201-271L5	318633	Right Angle Cable Connector Cable Flex 405 (Rosenberger Cable Group 71)



Communication Website

For further information refer to our website:
www.rosenberger.com/communication

Rosenberger

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Certified by IATF 16949 · DIN EN 9100 · ISO 9001 · ISO 14001

Order No.
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