



Innovative Connectors

SMP Infinity – One-Step Locking Connection

## Innovative Connectors with One-Step Locking Mechanism

For a wide range of applications up to 40 GHz Rosenberg presents a new, innovative series – SMP Infinity connectors: one-step locking mechanism, small dimensions, best performance.

### Product Portfolio

The product range of SMP Infinity connectors covers

- Straight and right angle connectors
- Cable connectors
- PCB connectors – pin-in-paste, solder pin, surface mount, rear mount type
- Bulkhead connectors
- Test adaptors
- Cable Assemblies

### Benefits

- One-step locking mechanism – low insertion force, similar to SMP limited detent types
- One-piece connector with pre-assembled inner conductor
- Minimized dimensions – 40 % smaller than standard SMA screw types
- Disconnecting – one tool for horizontal and vertical disconnecting
- Fast and easy disconnection despite high retention force



### Electrical and Mechanical Characteristics

- Frequency range: DC up to 40 GHz
- Return loss  $\geq 25$  dB DC to 15 GHz  
 $\geq 18$  dB 15 GHz to 40 GHz
- Insertion loss typical  $0,05 \times f$  GHz
- RF leakage (-92 dB @ 18 GHz)
- Locking sleeve – retention force up to 400 N
- Low insertion force  $\leq 45$  N
- Mating cycles  $\geq 500$
- High temperature range (-65 °C to +155 °C)

SMP Infinity connectors are not intermateable with standard SMP connector series.

## About Rosenberg

For over half a century, Rosenberg has been a worldwide leading supplier of impedance-controlled and optical connectivity technology. Rosenberg plays a key-role in many high-tech industries – telecommunications, site solutions for mobile networks, test & measurement, automotive electronics, medical and industrial technology, data centers and aerospace industry.

The Rosenberg group operates manufacturing and assembly locations in over 10 countries as well as a global sales network.