One-Step Locking Mechanism

SMP Infinity Connectors
Innovative Connectors with One-Step Locking Mechanism

For a wide range of applications up to 40 GHz Rosenberger 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 ≥ 25 dB DC to 15 GHz
  ≥ 18 dB 15 GHz to 40 GHz
- Insertion loss typical 0.05 x√f GHz
- RF leakage (-92 dB @ 18 GHz)
- Locking sleeve – retention force up to 400 N
- Low insertion force ≤ 45 N
- Mating cycles ≥ 500
- High temperature range (-65 °C to +155 °C)

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

About Rosenberger
For over half a century, Rosenberger has been a worldwide leading supplier of impedance-controlled and optical connectivity technology. Rosenberger 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 Rosenberger group operates manufacturing and assembly locations in over 10 countries as well as a global sales network.

For more information refer to our website:
www.rosenberger.com/smp-infinity