

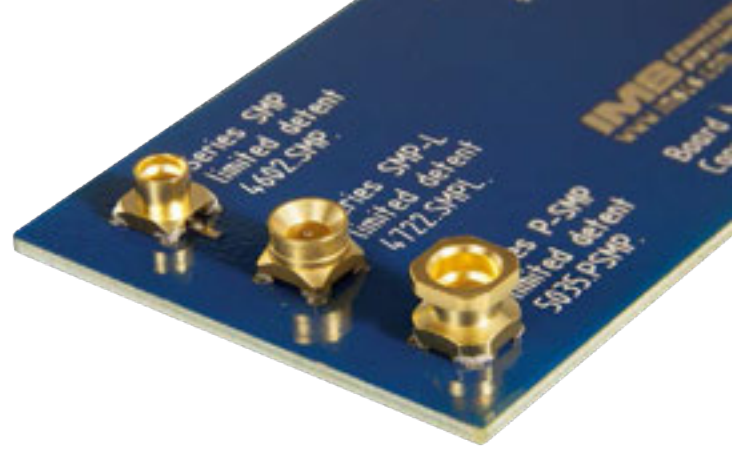


## P-SMP

### The New High Power Board-to-Board Interconnection

- Excellent RF transmission up to 200 W
- Permits high axial and radial misalignment
- High reliability through robust design





# P-SMP

## High Power Board-to-Board Interconnection

This newly developed P-SMP interconnection provides an excellent continuous power handling up to 200 W at 2,2 GHz. A compact design, containing of two pcb connectors and one bullet allows an optimized compensation of axial and radial misalignment by featuring a similar size to standard SMA connectors. With a strong focus on robustness this connector solution provides a high reliability. Excellent RF capabilities make P-SMP connectors ideal for applications up to 10 GHz.

### Product features:

- High RF power transmission between two boards or one board and cables transition
- Permits axial misalignment of: max.  $\pm 1$  mm
- Permits radial misalignment of: max.  $4^\circ$
- Enables minimum board to board distances of 12.6 mm
- Robust mechanical design

### Characteristics:

- Impedance: 50 Ohm
- Frequency range: DC – 10 GHz
- Return loss:  $\geq 32$  dB @ DC to 3 GHz  
 $\geq 26$  dB @ 3 GHz to 6 GHz
- Power handling: up to 200 W @ 2.2 GHz
- Mating cycles:  $\geq 500$  cycles (type: limited detent)
- For further details please refer to product data sheets

### Applications:

High power board to board and board to cable interconnections where RF signals up to 200 W @ 2.2 GHz have to be transmitted continuously. Typical usages are power amplifiers in base stations.



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