



**Contents**

| Device                                | Part number  | Quantity | Calibration Option <sup>a</sup> |
|---------------------------------------|--------------|----------|---------------------------------|
| Open circuit plug                     | P9S12L-000D3 | 1        | FC                              |
| Open circuit jack                     | P9K12L-000D3 | 1        | FC                              |
| Short circuit plug                    | P9S12S-000D3 | 1        | FC                              |
| Short circuit jack                    | P9K12S-000D3 | 1        | FC                              |
| Calibration load plug                 | P9S150-C10D3 | 1        | FC                              |
| Calibration load jack                 | P9K150-C10D3 | 1        | FC                              |
| Calibration adaptor plug/plug         | P9S121-S20D3 | 1        | FC                              |
| Calibration adaptor jack/jack         | P9K121-K20D3 | 1        | FC                              |
| Combi wrench                          | 03W008-000   | 1        | -                               |
| Torque wrench                         | 03W021-000   | 1        | FC                              |
| Gauge jack<br>(including gauge block) | P9W00S-000   | 1        | FC                              |
| Gauge plug<br>(including gauge block) | P9W00K-000   | 1        | FC                              |

a. See "Declaration of calibration options" for explanation.

**Documentation**

This kit is delivered with

- **USB-Stick**  
Standard Definitions as data files for Vector Network Analyzer Families PNA (Keysight/Agilent) and ZVA (Rohde&Schwarz). S1P-files for Open, Short and Load calibration standards. Calibration Certificate as PDF-file.
- **Standard Definitions Cards**  
Model based Standard Definitions for the Calibration Adapters. Overview of electrical kit components.
- **Kit Info Card**  
Handling precautions and information for installing Standard Definitions on a Vector Network Analyzer.
- **Calibration Certificate**  
Details see "Declaration of calibration options"
- **Operating Manual**

**Electrical specifications**

These electrical specifications are only valid when the specific VNA files or the specific S1P-files are used as standard definitions. They include measurement uncertainties as well as guard bands to cover some tear and wear of the calibration standards.

Individual datasheets with further specifications and information are available for each component of this calibration kit.

| Residual System Data*      | Frequency            | Specification<br>(plug and jack) |
|----------------------------|----------------------|----------------------------------|
| <b>Directivity</b>         | 0.01 GHz to ≤ 40 GHz | ≥ 33 dB                          |
|                            | > 40 GHz to ≤ 80 GHz | ≥ 30 dB                          |
|                            | > 80 GHz to ≤ 90 GHz | ≥ 27 dB                          |
| <b>Source Match</b>        | 0.01 GHz to ≤ 30 GHz | ≥ 32 dB                          |
|                            | > 30 GHz to ≤ 60 GHz | ≥ 28 dB                          |
|                            | > 60 GHz to ≤ 80 GHz | ≥ 25 dB                          |
|                            | > 80 GHz to ≤ 90 GHz | ≥ 23 dB                          |
| <b>Reflection Tracking</b> | 0.01 GHz to ≤ 20 GHz | ≤ 0.15 dB                        |
|                            | > 20 GHz to ≤ 40 GHz | ≤ 0.20 dB                        |
|                            | > 40 GHz to ≤ 60 GHz | ≤ 0.25 dB                        |
|                            | > 60 GHz to ≤ 80 GHz | ≤ 0.35 dB                        |
|                            | > 80 GHz to ≤ 90 GHz | ≤ 0.45 dB                        |

\* Residual System Data are also called Effective System Data