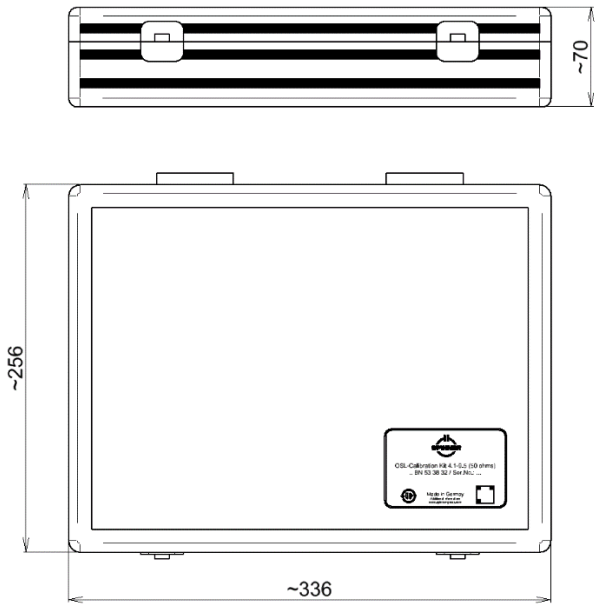
# OSL Calibration Kit || BN 533832




all dimensions in millimeter

## Radio frequency characteristics

| | | |
|---|---|---|
| Interface type | | 4.1-9.5 plug and socket per IEC 60169-11 |
| Frequency range | | DC to 12.5 GHz |
| OPEN | Offset | see calibration data |
| SHORT | Offset | see calibration data |
| LOAD | DC-resistance | 50 Ω ± 0.5 Ω |
| | Return loss, min. | 40 dB @ DC to 6 GHz<br>32 dB @ 6 to 12.5 GHz |
| | Power rating, max. | 0.5 W |

## Mechanical characteristics

| | |
|---|---|
| Center conductor material / surface finish | CuBe age hardened, copper alloy / gold-plated |
| Outer conductor material / surface finish | copper alloy / gold-plated |
| Insulation | cross linked polystyrene |
| Other metallic parts / surface finish | copper alloy / nickel-plated |
| Weight, approx. | 1.1 kg |
| Marking | laser engraving |

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## Environmental conditions

| | |
|---|---|
| **Operation** | |
| Ambient temperature range | +18 to +28°C [1)] |
| **Storage** | |
| Ambient temperature range | -40 to +70°C (in line with EN 60068-2-1 and EN 60068-2-2) |

1) Temperature range within all components maintain conformance to their specification.

## Scope of delivery and accessories

| | |
|---|---|
| Scope of delivery | certificate of calibration, USB flash drive with calibration data and documentation, aluminium storage case |

## Calibration data

Calibration data in formats for the common VNAs are included in the kit. It includes individual calibration coefficients for every kit to achieve the best possible performance.

## Pin depth limits

Pin depth is the distance between outer conductor mating plane and inner conductor mating plane. Positive values stand for protrusion of the inner conductor, negative values for recession.

| Connector Type 4.1-9.5 | Typical Pin Depth | Measurement Uncertainty | Ranges of measurement [2)] |
|---|---|---|---|
| plug | -5.04 to -5.06 mm | 0.005 mm | -5.035 to -5.065 mm |
| socket | +5.00 to +5.02 mm | 0.005 mm | +4.995 to +5.025 mm |

2) Ranges of measurement is the limit that could be measured with a suitable gauge due to the measurement uncertainty. These values could still be within the specification. The measurement uncertainty is based on the measurement with SPINNER gauges and the specified operating temperature. Deviation from these conditions may cause higher measurement uncertainty.