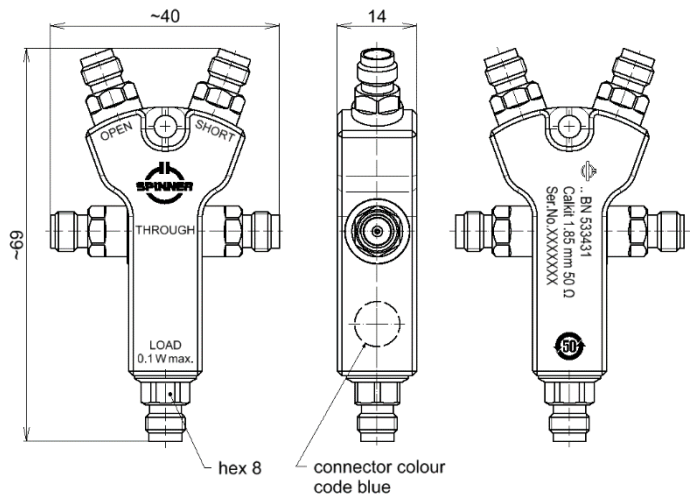


OSLT Compact Calibration Kit (4-in-1) || BN 533431



all dimensions in millimeter

Radio frequency characteristics

| | | |
|-----------------|-----------------------|--|
| Interface type | | 1.85 mm socket per IEC 61169-32 |
| Frequency range | | DC to 70 GHz |
| THROUGH | Return loss, min. | 30 dB @ DC to 4 GHz 26 dB @ 4 to 26.5 GHz 23 dB @ 26.5 to 40 GHz 21 dB @ 40 to 67 GHz 19 dB @ 67 to 70 GHz |
| | Insertion loss, max. | $0.06 \text{ dB} \times \sqrt{f \text{ (GHz)}}$ |
| OPEN | Phase deviation, max. | 3.0 deg. @ DC to 10 GHz 4.0 deg. @ 10 to 26.5 GHz 6.0 deg. @ 26.5 to 50 GHz 7.0 deg. @ 50 to 70 GHz |
| SHORT | Phase deviation, max. | 2.0 deg. @ DC to 10 GHz 3.0 deg. @ 10 to 26.5 GHz 5.0 deg. @ 26.5 to 50 GHz 6.5 deg. @ 50 to 70 GHz |
| LOAD | DC-resistance | $50 \Omega \pm 0.5 \Omega$ |
| | Return loss, min. | 36 dB @ DC to 4 GHz 31 dB @ 4 to 10 GHz 25 dB @ 10 to 26.5 GHz 22 dB @ 26.5 to 50 GHz 20 dB @ 50 to 67 GHz 18 dB @ 67 to 70 GHz |
| | Power rating, max. | 0.1 W |

SPINNER GmbH | This document is proprietary to us. All rights reserved. Any use, transfer, or reproduction of this document or the know-how contained therein requires our express consent.

OSLT Compact Calibration Kit (4-in-1) || BN 533431

Calibration data

| Format | | Keysight (former Agilent) / Anritsu | Rohde & Schwarz |
|-------------|---------------------------|---|--|
| THROUGH | Electrical delay / length | 116.714 ps | 34.99 mm |
| OPEN | C0 | $44.1806 \times 10^{-15} \text{ F}$ | 44.1806 fF |
| | C1 | $828.786 \times 10^{-27} \text{ F/Hz}$ | 0.828786 fF/GHz |
| | C2 | $-28.2126 \times 10^{-36} \text{ F/Hz}^2$ | $-0.0282126 \text{ fF}/(\text{GHz})^2$ |
| | C3 | $0.4104 \times 10^{-45} \text{ F/Hz}^3$ | $0.0004104 \text{ fF}/(\text{GHz})^3$ |
| | Offset | 18.346 ps | 5.5 mm |
| SHORT | L0 | $0.5 \times 10^{-12} \text{ H}$ | 0.5 pH |
| | L1 | $0 \times 10^{-24} \text{ H/Hz}$ | 0 pH/GHz |
| | L2 | $0 \times 10^{-33} \text{ H/Hz}^2$ | $0 \text{ pH}/(\text{GHz})^2$ |
| | L3 | $0 \times 10^{-42} \text{ H/Hz}^3$ | $0 \text{ pH}/(\text{GHz})^3$ |
| | Offset | 20.948 ps | 6.28 mm |
| Offset loss | | 4 GΩ/s | |

Mechanical characteristics

| | |
|--|---|
| Inner conductor material / surface coating | CuBe age hardened, copper alloy / gold-plated |
| Outer conductor material / surface coating | CuBe / gold-plated |
| Dielectric material | PS, cross linked polystyrene |
| Other parts material / surface coating | aluminium / anodised (blue) |
| Weight, approx. | 50 g |
| Marking | laser engraving |

| Component Name | Toxic or Hazardous Substances and Elements | | | | | |
|----------------|--|----|----|-------|-----|------|
| | Pb | Hg | Cd | Cr 6+ | PBB | PBDE |
| Metal parts | X | O | O | O | O | O |

The environmental protection use period of 50 years is valid, if the product is used as intended.

Environmental conditions

| Operation | |
|---------------------------|---|
| Ambient temperature range | +18 to +28°C |
| Relative humidity, max. | 95% (non-condensing) |
| Storage | |
| Ambient temperature range | -40 to +70°C (in line with EN 60068-2-1 and EN 60068-2-2) |
| Relative humidity, max. | 95% (non-condensing) |

Scope of delivery and accessories

| | |
|-------------------|--|
| Scope of delivery | certificate of calibration, protective caps, protective bag, data sheet, handling instructions |
|-------------------|--|

SPINNER GmbH
 This document is proprietary to us.
 All rights reserved. Any use, transfer, or reproduction of this document
 or the know-how contained therein requires our express consent.