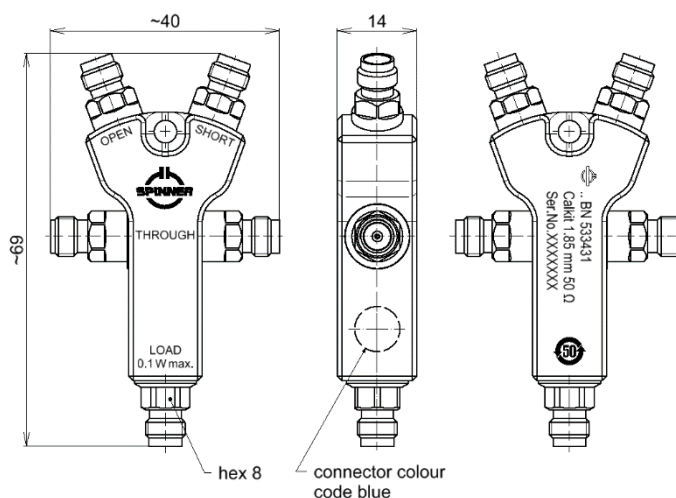


## OSLT Compact Calibration Kit (4-in-1) || BN 533431



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<br>26 dB @ 4 to 26.5 GHz<br>23 dB @ 26.5 to 40 GHz<br>21 dB @ 40 to 67 GHz<br>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<br>4.0 deg. @ 10 to 26.5 GHz<br>6.0 deg. @ 26.5 to 50 GHz<br>7.0 deg. @ 50 to 70 GHz           |
| SHORT           | Phase deviation, max. | 2.0 deg. @ DC to 10 GHz<br>3.0 deg. @ 10 to 26.5 GHz<br>5.0 deg. @ 26.5 to 50 GHz<br>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                                                                                                                  |

## 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                        | $-28.2126 \times 10^{-36} \text{ F/Hz}^2$ | $-0.0282126 \text{ fF/(GHz)}^2$ |
|             | C3                        | $0.4104 \times 10^{-45} \text{ F/Hz}^3$   | $0.0004104 \text{ fF/(GHz)}^3$  |
|             | 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                        | $0 \times 10^{-33} \text{ H/Hz}^2$        | $0 \text{ pH/(GHz)}^2$          |
|             | L3                        | $0 \times 10^{-42} \text{ H/Hz}^3$        | $0 \text{ pH/(GHz)}^3$          |
|             | 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

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| <b>Operation</b>          |                                                           |
| Ambient temperature range | +18 to +28°C                                              |
| Relative humidity, max.   | 95% (non-condensing)                                      |
| <b>Storage</b>            |                                                           |
| 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 |
|-------------------|------------------------------------------------------------------------------------------------|

