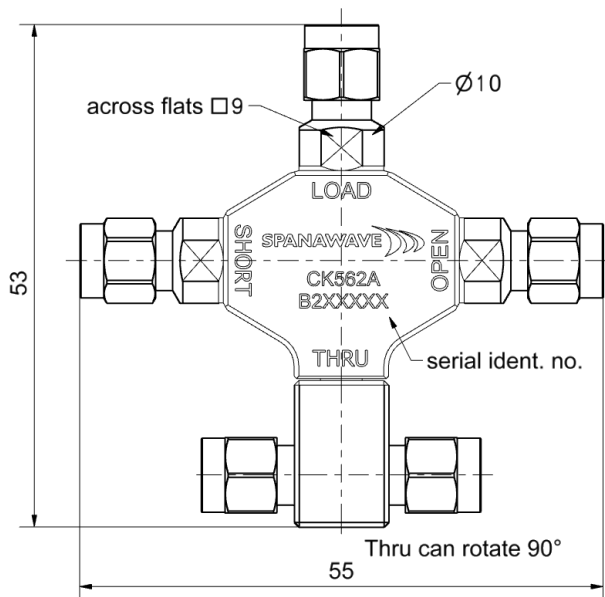


**CK562A:** 4-in-1 OSLT Calibration Kit, DC to 40 GHz, 2.92 mm (m)



**Price\*: \$1,975.00**

**Interface**

According to 2.92mm (m)  
 Mechanically compatible with 3.5 mm and SMA

**Contents and Documentation**

- This kit is delivered with
- **Standard Definitions Card**  
 Printed Standard Definitions that can be used on nearly all Vector Network Analyzers
  - **Test Results Documentation**
  - **Hard Shell Case**

**Material and plating**

**Connector parts**

Center conductor  
 Outer conductor  
 Coupling nut  
 Body  
 Dielectric  
 Substrate

**Material**

Beryllium copper  
 Stainless steel  
 Stainless steel  
 Aluminum  
 PS  
 Al<sub>2</sub>O<sub>3</sub>

**Plating**

Gold, min. 1.27 μm, over nickel  
 Passivated  
 Passivated  
 black anodized

\*Prices are for US customers only. International prices may differ based on region.

## CK562A: 4-in-1 OSLT Calibration Kit, DC to 40 GHz, 2.92 mm (m)

### Electrical data

Frequency range	DC to 40.0 GHz
<b>Thru</b>	
Return loss	$\geq 32$ dB, DC to 4 GHz $\geq 30$ dB, 4 GHz to 26.5 GHz $\geq 28$ dB, 26.5 GHz to 40 GHz
<b>Open</b>	
Error from nominal phase <sup>1</sup>	$\leq 1.5^\circ$ , DC to 4 GHz $\leq 4.0^\circ$ , 4 GHz to 26.5 GHz $\leq 5.0^\circ$ , 26.5 GHz to 40.0 GHz
<b>Short</b>	
Error from nominal phase <sup>2</sup>	$\leq 1.5^\circ$ , DC to 4 GHz $\leq 4.0^\circ$ , 4 GHz to 26.5 GHz $\leq 5.0^\circ$ , 26.5 GHz to 40.0 GHz
<b>Load</b>	
Return loss	$\geq 40.0$ dB, DC to 4 GHz $\geq 28.0$ dB, 4 GHz to 26.5 GHz $\geq 25.0$ dB, 26.5 GHz to 40.0 GHz
DC Resistance	$50 \Omega \pm 0.5 \Omega$
Power handling	$\leq 0.5$ W

<sup>1</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

<sup>2</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance.

### Mechanical data

Mating cycles	$\geq 500$
Maximum torque	1.70 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.08 mm

### General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

#### Thru

Offset $Z_0$ / Impedance / $Z_0$	50 $\Omega$
Offset Delay	83.057 ps
Length (electrical) / Offset Length	24.90 mm
Offset Loss	2.70 G $\Omega$ /s
Loss	0.0195 dB/ $\sqrt{\text{GHz}}$
Line Loss @ 1GHz	0.0008 dB/mm

#### Open

Offset $Z_0$ / Impedance / $Z_0$	50 $\Omega$
Offset Delay	28.353 ps
Length (electrical) / Offset Length	8.50 mm
Offset Loss	2.40 G $\Omega$ /s
Loss	0.0118 dB/ $\sqrt{\text{GHz}}$
Fringing Capacitances	$C_0 = -7.38000 \times 10^{-15} \text{ F} \quad / \quad -7.38000 \text{ fF}$ $C_1 = 1180.00 \times 10^{-27} \text{ F/Hz} \quad / \quad 1.18000 \text{ fF /GHz}$ $C_2 = -44.8000 \times 10^{-36} \text{ F/Hz}^2 \quad / \quad -0.04480 \text{ fF /GHz}^2$ $C_3 = 0.54000 \times 10^{-45} \text{ F/Hz}^3 \quad / \quad 0.00054 \text{ fF /GHz}^3$

## CK562A: 4-in-1 OSLT Calibration Kit, DC to 40 GHz, 2.92 mm (m)

### Short

Offset $Z_0$ / Impedance / $Z_0$	50 $\Omega$		
Offset Delay	28.353 ps		
Length (electrical) / Offset Length	8.50 mm		
Offset Loss	2.40 G $\Omega$ /s		
Loss	0.0118 dB/ $\sqrt{\text{GHz}}$		
Short Inductance	$L_0 = 0.0000 \times 10^{-12}$ H	/	0.0000 pH
	$L_1 = 0.0000 \times 10^{-24}$ H/Hz	/	0.0000 pH/GHz
	$L_2 = 0.0000 \times 10^{-33}$ H/Hz <sup>2</sup>	/	0.0000 pH/GHz <sup>2</sup>
	$L_3 = 0.0000 \times 10^{-42}$ H/Hz <sup>3</sup>	/	0.0000 pH/GHz <sup>3</sup>

### Load

Offset $Z_0$ / Impedance / $Z_0$	50 $\Omega$
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.000 mm
Offset Loss	0.00 G $\Omega$ /s
Loss	0.0000 dB/ $\sqrt{\text{GHz}}$

### Environmental data

Operating temperature range <sup>3</sup>	+20 °C to +26 °C
Rated temperature range of use <sup>4</sup>	0 °C to +50 °C
Storage temperature range	-40 °C to +85 °C
RoHS	compliant

<sup>3</sup> Temperature range over which these specifications are valid.

<sup>4</sup> This range is underneath and above the operating temperature range, within the calibration kit is fully functional and could be used without damage.

### Includes

Standard delivery for this kit includes Test Results. The documentation issued reports which quantities were tested individually, traceable to national / international standards. Model based standard definitions of the calibration standards are reported in Agilent / Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

### Calibration interval

Recommendation	12 months
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### Packing

Standard	1 per bag
Weight	1.5 oz.

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