

Technical Data Sheet

TOSLK50A-40 Calibration Kit Type K(m) DC to 40 GHz, 50 Ω



This calibration kit has been designed to provide superior measurement results when used with precision instruments. It is designed for use in both field and lab environments. It is a high precision component and should be handled with proper care. Excessive shock, torque, or power should be avoided to prevent permanent damage.

Specifications for units within recommended calibration cycle are guaranteed under the following conditions:

1. Unit is operated within specified temperature range.
2. Unit has not been subjected to damage from mishandling.

Length, capacitance, and inductance are nominal values.

Through Return Loss and Insertion Loss and DC Resistance specifications are typical. Phase is measured as a deviation from the model defined by offset length and inductance or capacitance.

Operating Temperature Range	-10 °C to +55 °C (MIL-PRF-28800F, Class 2)
Storage Temperature Range	-51 °C to +71 °C (MIL-PRF-28800F, Class 2)
Recommended Calibration Interval	1 year

Calibration Options

- TOSLK-0098 Standard Calibration to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate.
- TOSLK-0099 Premium Calibration to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate and test report.

For the latest information, sales, or service, visit: www.anritsu.com

TOSLK50A-40 Calibration Kit TDS
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TOSLK50A-40 Calibration Kit Specifications

Through (Thru)	Spec
Length	16.07 mm
Return Loss (DC to 10 GHz)	≥ 34 dB
Return Loss (10 to 20 GHz)	≥ 32 dB
Return Loss (20 to 30 GHz)	≥ 30 dB
Return Loss (30 to 40 GHz)	≥ 30 dB
Insertion Loss (DC to 40 GHz)	$\leq 0.025 \times \sqrt{f/\text{GHz}}$ dB

Open	Spec
Length	5.01 mm
C0 (1E-15) F	4.500
C1 (1E-27) F/Hz	395.000
C2 (1E-36) F/Hz ²	-20.000
C3 (1E-45) F/Hz ³	0.400
Phase (DC to 10 GHz)	$\leq \pm 1.5^\circ$
Phase (10 to 20 GHz)	$\leq \pm 3.0^\circ$
Phase (20 to 30 GHz)	$\leq \pm 4.5^\circ$
Phase (30 to 40 GHz)	$\leq \pm 6.0^\circ$

Short	Spec
Length	5.01 mm
L0 (1E-12) H	4.000
L1 (1E-24) H/Hz	-650.000
L2 (1E-33) H/Hz ²	39.000
L3 (1E-42) H/Hz ³	-0.640
Phase (DC to 10 GHz)	$\leq \pm 1.5^\circ$
Phase (10 to 20 GHz)	$\leq \pm 2.5^\circ$
Phase (20 to 30 GHz)	$\leq \pm 4.0^\circ$
Phase (30 to 40 GHz)	$\leq \pm 5.5^\circ$

Load	Spec
DC Resistance	$50 \Omega \pm 0.25 \Omega$
Return Loss (DC to 10 GHz)	≥ 42 dB
Return Loss (10 to 20 GHz)	≥ 36 dB
Return Loss (20 to 30 GHz)	≥ 32 dB
Return Loss (30 to 40 GHz)	≥ 30 dB
Max Power	0.5 W