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Data Sheet

August 1, 2026

ANRITSU

Anritsu TOSLK50A-20 – Coaxial calibration kit Type K(m) 50ohms

Anritsu TOSLK50A-20 Coaxial Calibration Kit, Type K(m), 50 Ohm The Anritsu TOSLK50A-20 is a precision coaxial Open/Short/Load/Through (TOSL) calibration kit with male Type K connectors for vector network analyzer calibration from DC to 20 GHz at 50 ohms. It provides a complete set of reflection standards plus a through for accurate S-parameter error correction. Type K connectors are electrically compatible with 3.5 mm and SMA interfaces. The female counterpart is TOSLK50A-20; higher-frequency kits extend to 40 GHz and 43.5 GHz. The Anritsu TOSLK50A-20 is a precision coaxial Open/Short/Load/Through (TOSL) calibration kit with male Type K connectors for vector network analyzer calibration from DC to 20 GHz at 50 ohms. It provides a complete set of reflection standards plus a through for accurate S-parameter error correction. Type K connectors are electrically compatible with 3.5 mm and SMA interfaces. The female counterpart is TOSLK50A-20; higher-frequency kits extend to 40 GHz and 43.5 GHz. SOLT / TOSL calibration of VNAs and microwave test systems with Type K (male) test ports; DC to 20 GHz component characterization; field and lab calibration of Anritsu and other VNA platforms supporting mechanical cal kits.



MODEL

**Anritsu
TOSLK50A-20**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

TOSLK50A-20

LISTING

<https://aumictechlabs.com/products/toslk50a-20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu TOSLK50A-20 is a Type K(m) coaxial calibration kit engineered for precise RF and microwave measurements across DC to 20 GHz. This 50-ohm system delivers the calibration standards Open, Short, Load, and optional Thru - required for SOLT (Short-Open-Load-Thru) calibration procedures on vector network analyzers and precision test instruments. The kit maintains exceptional return loss performance: ≥ 42 dB from DC to 10 GHz and ≥ 36 dB from 10 to 20 GHz on the load standard, ensuring accurate network characterization in both laboratory and field environments.

Technical Specifications
Frequency Range: DC to 20 GHz
Connector Type: Type K(m)
Impedance: 50 ohms
Load Return Loss: ≥ 42 dB (DC–10 GHz); ≥ 36 dB (10–20 GHz)
DC Resistance: $50\ \Omega \pm 0.25\ \Omega$
Physical Dimensions: 5.01 mm (Open and Short); 16.07 mm (Thru)
Operating Temperature: $-10\ ^\circ\text{C}$ to $+55\ ^\circ\text{C}$
Storage Temperature: $-51\ ^\circ\text{C}$ to $+71\ ^\circ\text{C}$
Weight: 3 lbs
Recommended Calibration Interval: 1 year

Key Features
Full SOLT calibration standards included with optional Thru element
Precision load standard with guaranteed return loss across the full frequency band
MIL-PRF-28800F Class 2 environmental specification for field durability
Traceable calibration available with ISO17025 and ANSI/NCSL Z540-1 certification

Typical Applications
Vector network analyzer (VNA) calibration
S-parameter measurement verification
Network characterization in RF and microwave test labs
Field calibration of portable test equipment

Compatibility & Integration
Designed for Anritsu Vector Network Analyzers, including the MS46322A ShockLine VNA series. Type K connectors are compatible with 3.5 mm and SMA connector systems, enabling broader instrument integration across test benches.

Features & description

From manufacturer datasheet

Features

- Full open, short, load, and through standards in one kit
- Type K(m) connectors, 50 ohm
- Frequency coverage DC to 20 GHz
- Load return loss typically greater than or equal to 42 dB (DC-10 GHz) and 36 dB (10-20 GHz)
- Through included for full two-port calibration support
- Compatible with 3.5 mm / SMA electrical interfaces (K series)

TOSLK50A Characteristics / Specifications

PARAMETER	VALUE
Model	TOSLK50A-20
Manufacturer	Anritsu
Instrument Type	Coaxial mechanical calibration kit (TOSL)
Connector	TypeKmale
Impedance	50 ohm
Frequency Range	DC to 20 GHz
Document	Technical Data Sheet PN 11410-00741 Rev. E class Load
DC Resistance	50 ohm +/-0.25 ohm
Return Loss DC to 10 GHz	greater than or equal to 42 dB
Return Loss 10 to 20 GHz	greater than or equal to 36 dB
Maximum Power	0.5 W Through (Thru)
Length	about 16.07 mm
Insertion Loss DC to 20 GHz	less than or equal to $0.025 \times \sqrt{f/\text{GHz}}$ dB Open
Phase DC to 10 GHz	less than or equal to +/-1.5 degrees
Phase 10 to 20 GHz	less than or equal to +/-2.5 degrees Polynomial inductance coefficients (L0-L3) per TDS Related Models
Return loss	typically greater than or equal to 42 dB (DC-10 GHz) and 36 dB (10-20 GHz) - Through included for full two-port calibration support - Compatible with 3.5 mm / SMA electrical interfaces (K series)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	TOSLK50A-20
Manufacturer	Anritsu
Instrument Type	Coaxial mechanical calibration kit (TOSL)
Connector	TypeKmale
Impedance	50 ohm
Frequency Range	DC to 20 GHz
Document	Technical Data Sheet PN 11410-00741 Rev. E class
Load	
Specifications	
PARAMETER	VALUE
DC Resistance	50 ohm +/-0.25 ohm
Return Loss DC to 10 GHz	greater than or equal to 42 dB
Return Loss 10 to 20 GHz	greater than or equal to 36 dB
Maximum Power	0.5 W
Through (Thru)	
Specifications	
PARAMETER	VALUE
Length	about 16.07 mm
Return Loss DC to 10 GHz	greater than or equal to 34 dB
Return Loss 10 to 20 GHz	greater than or equal to 32 dB
Insertion Loss DC to 20 GHz	less than or equal to 0.025 x sqrt(f/GHz) dB
Open	
Specifications	

PARAMETER	VALUE
Length	about 5.01 mm
Phase DC to 10 GHz	less than or equal to +/-1.5 degrees
Phase 10 to 20 GHz	less than or equal to +/-3.0 degrees

Polynomial capacitance coefficients (C0-C3) per TDS

Short

Specifications

PARAMETER	VALUE
Length	about 5.01 mm
Phase DC to 10 GHz	less than or equal to +/-1.5 degrees
Phase 10 to 20 GHz	less than or equal to +/-2.5 degrees

Polynomial inductance coefficients (L0-L3) per TDS

Related Models

T0SLKF50A-20: Type K(f), DC-20 GHz
T0SLK50A-40 / T0SLKF50A-40: Type K, DC-40 GHz
T0SLK50A-43.5 / T0SLKF50A-43.5: Type K, DC-43.5 GHz (with .s1p support on some kits)

Standard Operating Conditions

Use correct torque forKconnectors. Keep standards clean and capped when not in use. Enter kit coefficients from the TDS or kit label into the VNA cal kit definition.

Operational Notes

Confirm male (T0SLK50A-20) vs female (T0SLKF50A-20) gender matches the test ports or adapters in use. This is a compact OSL/T0SL kit, not a full 3652A-style multi-component Kcal kit with gauges.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.