



SAV2040X Series Electronic Calibration Kit

Datasheet

Saluki Technology Inc.

The document applies to the Electronic Calibration Kits of the following models:

- SAV20402 Electronic Calibration Kit (300kHz - 18GHz).
- SAV20403 Electronic Calibration Kit (10MHz - 26.5GHz).
- SAV20404 Electronic Calibration Kit (10MHz - 50GHz).
- SAV20405 Electronic Calibration Kit (10MHz - 20GHz)

Model	Frequency Range	Ports	Connector
SAV20402	300kHz - 18GHz	2	Type N, F/M (standard), FF / MM (optional)
SAV20403	10MHz - 26.5GHz	2	3.5mm, F/M (standard), FF / MM (optional)
SAV20404	10MHz - 50GHz	2	2.4mm, F/M (standard), FF / MM (optional)
SAV20405	10MHz - 20GHz	4	3.5mm, F/F/F/F standard

Standard Pack of SAV2040X series Electronic Calibration Kit includes:

- Ecal-kit
- USB cable (1.5m)
- User Manual

Options of the SAV2040X Series Electronic Calibration Kit in addition to standard accessories:

● SAV20402

Part No.	Item
SAV20402-001	N-50KK Connector
SAV20402-002	N-50JJ Connector
SAV20402-003	Type N Torque wrench
SAV20402-004	U disk for drivers and software

● SAV20403

Part No.	Item
SAV20403-001	3.5mm F/F Connector
SAV20403-002	3.5mm M/M Connector
SAV20403-003	SMA Joint Torque wrench
SAV20403-004	U disk for drivers and software

● SAV20404

Part No.	Item
SAV20404-001	2.4mm F/F Connector
SAV20404-002	2.4mm M/M Connector
SAV20404-003	2.4mm Joint Torque wrench
SAV20404-004	U disk for drivers and software

● SAV20405

Part No.	Item
SAV20405-001	3.5mm F/F Connector
SAV20405-002	3.5mm M/M Connector
SAV20405-003	SMA Joint Torque wrench
SAV20405-004	U disk for drivers and software

Preface

Thanks for choosing SAV2040X series Electronic Calibration Kit produced by Saluki Technology Inc.

We devote ourselves to meeting your demands, providing you high-quality measuring instrument and the best after-sales service. We persist with “superior quality and considerate service”, and are committed to offering satisfactory products and service for our clients.

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Saluki Technology

Document Authorization

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Product Quality Assurance

The warranty period of the product is 36 months from the date of delivery. The instrument manufacturer will repair or replace damaged parts according to the actual situation within the warranty period. The user should return the product to the manufacturer and prepay mailing costs. The manufacturer will return the product and such costs to the user after maintenance.

Product Quality Certificate

The product meets the indicator requirements of the document at the time of delivery. Calibration and measurement are completed by the measuring organization with qualifications specified by the state, and relevant data are provided for reference.

Contacts

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1. Overview

SAV2040X series E-cal kit covers a wide frequency range and provide good calibration performance. The E-cal kit is powered up and communicate via USB port. SAV2040X enjoys the benefit of easy-to-use, quick calibration and good performance. It is compatible with Saluki VNAs as well as Keysight ENA and PNA series VNA.

2. Specifications

2. 1. SAV20402

Spec.	Frequency Range				
	300kHz - 10MHz	10MHz - 500MHz	500MHz -2GHz	2GHz - 10GHz	10GHz - 18GHz
Directivity (dB Min)	≥36dB	≥42dB	≥43dB	≥39dB	≥36dB
Source matching (dB Min)	≥30dB	≥34dB	≥38dB	≥34dB	≥30dB
Load matching (dB Min)	≥26dB	≥30dB	≥37dB	≥35dB	≥33dB
Transmission tracking (dB)	±0.07dB	±0.08dB	±0.08dB	±0.09dB	±0.10dB
Reflection Tracking (dB)	±0.06dB	±0.07dB	±0.07dB	±0.08dB	±0.10dB
Physical Port	N type				
Max. Input Power	-5dBm(typ.), ±10VDC				
Operating Temperature	+20°C - +28°C				
Storage Temperature	-40°C - +70°C				

2. 2. SAV20403

Spec.	Frequency Range				
	10MHz - 500MHz	500MHz - 2GHz	2GHz - 10GHz	10GHz - 20GHz	20GHz - 26.5GHz
Directivity (dB Min)	≥41dB	≥51dB	≥46dB	≥40dB	≥36dB
Source matching (dB Min)	≥35dB	≥41dB	≥38dB	≥37dB	≥33dB
Load matching (dB Min)	≥31dB	≥38dB	≥45dB	≥40dB	≥36dB
Transmission tracking (dB)	±0.07dB	±0.08dB	±0.08dB	±0.10dB	±0.14dB
Reflection Tracking (dB)	±0.05dB	±0.05dB	±0.08dB	±0.12dB	±0.13dB
Physical Port	3.5mm				
Max. Input Power	-5dBm(typ.), ±10VDC				
Operating Temperature	+20°C - +28°C				
Storage Temperature	-40°C - +70°C				

2. 3. SAV20404

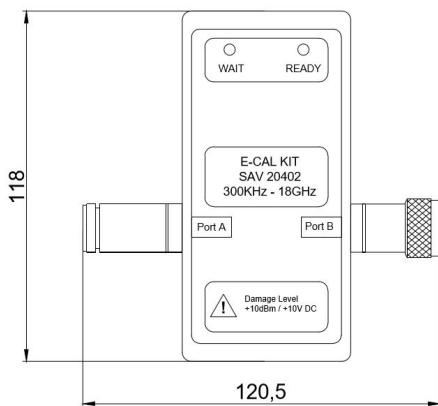
Spec.	Frequency Range					
	10MHz - 45MHz	45MHz - 2GHz	2GHz - 10GHz	10GHz - 20GHz	20GHz - 40GHz	40GHz - 50GHz
Directivity (dB Min)	≥45dB	≥45dB	≥43dB	≥40dB	≥37dB	≥31dB
Source matching (dB Min)	≥37dB	≥37dB	≥34dB	≥31dB	≥30dB	≥32dB
Load matching (dB Min)	≥39dB	≥39dB	≥36dB	≥35dB	≥33dB	≥32dB
Transmission tracking (dB)	±0.06dB	±0.06dB	±0.08dB	±0.09dB	±0.12dB	±0.15dB
Reflection Tracking (dB)	±0.07dB	±0.07dB	±0.09dB	±0.12dB	±0.16dB	±0.25dB
Physical Port	2.4mm					
Max. Input Power	-5dBm(typ.), ±10VDC					
Operating Temperature	+20°C - +28°C					
Storage Temperature	-40°C - +70°C					

2. 4. SAV20405

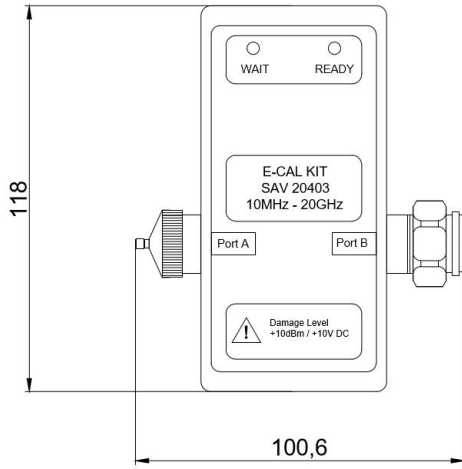
Spec.	Frequency Range			
	10MHz - 5GHz	5GHz - 9GHz	9GHz -13.5GHz	13.5GHz - 20GHz
Directional (dB Min)	≥47dB	≥42dB	≥40dB	≥33dB
Source matching (dB Min)	≥38dB	≥33dB	≥32dB	≥28dB
Load matching (dB Min)	≥40dB	≥35dB	≥33dB	≥31dB
Transmission tracking (dB)	±0.05dB	±0.06dB	±0.08dB	±0.18dB
Reflection Tracking (dB)	±0.08dB	±0.12dB	±0.12dB	±0.20dB
Physical Port	3.5mm			
Max. Input Power	-7dBm(typ.), ±3VDC			
Operating Temperature	+20°C - +30°C			
Storage Temperature	-40°C - +70°C			

2. 5. Dimension

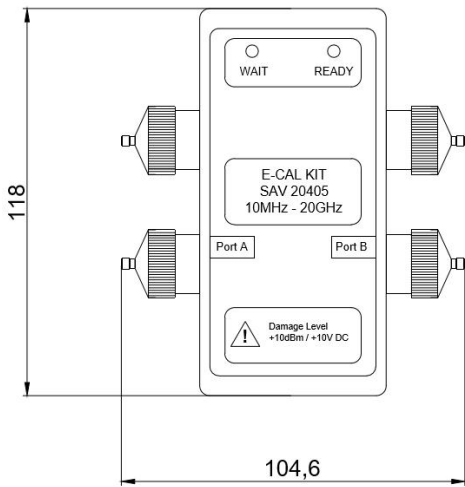
- SAV20402 (118mm x 120.5mm x50mm)



● **SAV20403/SAV20404 (118mm x 100.6mm x50mm)**



● **SAV20405 (118mm x 104.6mm x50mm)**



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