


Vector network analyzer calibration kits

Description and purpose

The calibration kits are used for calibration of vector network analyzers in 2.4/1.042 mm, 3.5/1.52 mm and 7.0/ 3.04 mm paths. The kits for complete two-port calibration (for example, NKMM-01-01R) contain required loads and adapters. The kits include adapters with 3.5 mm NMD (female) or 2.4 mm NMD (female) connectors on one side and conventional 7.0/3.04 mm, 3.5/1.52 mm or 2.4/1.042 mm path connectors on the other side to provide connection to vector network analyzer ports. Cost-saving kits for one-port calibration of VNA are available (for example, NKMM-01). Parameters of all kit components are described in table supplied on digital data storage: 7.0/3.04 mm path kits – 0 to 18 GHz, 3.5/1.52 mm path kits – 0 to 26.5 GHz, 2.4/1.042 mm path kits – 0 to 50 GHz. Calibration kits are manufactured in accordance with ZHNKU.468955.001 TU specification.



 INCLUDED IN STATE REGISTER OF MEASURING INSTRUMENTS

NKMM-01-01R calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-18-01-01	Coaxial adapter, type III (male) – type III (male)	1
2	PK2-18-01R-01R	Coaxial adapter, type III (female) – type III (female)	1
3	PK2-18-01R-01	Coaxial adapter, type III (female) – type III (male)	1
4	NK3-18-01	Short circuit load, type III (male)	1
5	NK3-18-01R	Short circuit load, type III (female)	1
6	NH3-18-01	Open circuit load, type III (male)	1
7	NH3-18-01R	Open circuit load, type III (female)	1
8	NS3-18-01	Matched load, type III (male)	2
9	NS3-18-01R	Matched load, type III (female)	2
10	PKN2-18-13RN-01	Coaxial adapter, 3.5 mm NMD (female) – type III (male)	2
11	PKN2-18-13RN-01R	Coaxial adapter, 3.5 mm NMD (female) – type III (female)	2
Other accessories			
12	KT-4	Torque wrench for type N and type III connectors	1
13	KP-2	Support open-end wrench for type N and type III connectors	1
14	Manual		1
15	Digital data storage containing characteristics		1
16	Wooden case		1

NKMM-11-11R calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-18-11-11	Coaxial adapter, type N (male) – type N (male)	1
2	PK2-18-11R-11R	Coaxial adapter, type N (female) – type N (female)	1
3	PK2-18-11R-11	Coaxial adapter, type N (female) – type N (male)	1
4	NK3-18-11	Short circuit load, type N (male)	1
5	NK3-18-11R	Short circuit load, type N (female)	1
6	NH3-18-11	Open circuit load, type N (male)	1
7	NH3-18-11R	Open circuit load, type N (female)	1
8	NS3-18-11	Matched load, type N (male)	2
9	NS3-18-11R	Matched load, type N (female)	2

No.	Model	Description	Quantity, pcs
10	PKN2-18-13RN-11	Coaxial adapter, 3.5 mm NMD (female) – type N (male)	2
11	PKN2-18-13RN-11R	Coaxial adapter, 3.5 mm NMD (female) – type N (female)	2
Other accessories			
12	KT-4	Torque wrench for type N and type III connectors	1
13	KP-2	Support open-end wrench for type N and type III connectors	1
14	Manual		1
15	Digital data storage containing characteristics		1
16	Wooden case		1

NKMM-01-01R/A

No.	Model	Description	Quantity, pcs
1	PK2-18-01-01	Coaxial adapter, type III (male) – type III (male)	1
2	PK2-18-01R-01R	Coaxial adapter, type III (female) – type III (female)	1
3	PK2-18-01R-01	Coaxial adapter, type III (female) – type III (male)	1
4	NK3-18-01	Short circuit load, type III (male)	1
5	NK3-18-01R	Short circuit load, type III (female)	1
6	NH3-18-01	Open circuit load, type III (male)	1
7	NH3-18-01R	Open circuit load, type III (female)	1
8	NS3-18-01	Matched load, type III (male)	1
9	NS3-18-01R	Matched load, type III (female)	1
Other accessories			
10	KT-4	Torque wrench for type N and type III connectors	1
11	KP-2	Support open-end wrench for type N and type III connectors	1
12	Manual		1
13	Digital data storage containing characteristics		1
14	Wooden case		1

NKMM-11-11R/A calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-18-11-11	Coaxial adapter, type N (male) – type N (male)	1
2	PK2-18-11R-11R	Coaxial adapter, type N (female) – type N (female)	1
3	PK2-18-11R11	Coaxial adapter, type N (female) – type N (male)	1
4	NK3-18-11	Short circuit load, type N (male)	1
5	NK3-18-11R	Short circuit load, type N (female)	1
6	NH3-18-11	Open circuit load, type N (male)	1
7	NH3-18-11R	Open circuit load, type N (female)	1
8	NS3-18-11	Matched load, type N (male)	1
9	NS3-18-11R	Matched load, type N (female)	1
Other accessories			
10	KT-4	Torque wrench for type N and type III connectors	1
11	KP-2	Support open-end wrench for type N and type III connectors	1
12	Manual		1
13	Digital data storage containing characteristics		1
14	Wooden case		1

NKMM-03-03R calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-20-03-03	Coaxial adapter, type IX, ver. 3 (male) – type ix, ver. 3 (male)	1
2	PK2-20-03R-03R	Coaxial adapter, type IX, ver. 3 (female) – type IX, ver. 3 (female)	1
3	PK2-20-03R-03	Coaxial adapter, type IX, ver. 3 (female) – type IX, ver. 3 (male)	1
4	NK3-20-03	Short circuit load, type IX, ver. 3 (male)	1
5	NK3-20-03R	Short circuit load, type IX, ver. 3 (female)	1

No.	Model	Description	Quantity, pcs
6	NH3-20-03	Open circuit load, type IX, ver. 3 (male)	1
7	NH3-20-03R	Open circuit load, type IX, ver. 3 (female)	1
8	NS3-20-03	Matched load, type IX, ver. 3 (male)	2
9	NS3-20-03R	Matched load, type IX, ver. 3 (female)	2
10	PKN2-20-13RN-03	Coaxial adapter, 3.5 mm NMD (female) – type IX, ver. 3 (male)	2
11	PKN2-20-13RN-03R	Coaxial adapter, 3.5 mm NMD (female) – type IX, ver. 3 (female)	2
Other accessories			
12	KT-2	Torque wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
13	KP-1	Support open-end wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
14	Manual		1
15	Digital data storage containing characteristics		1
16	Wooden case		1

NKMM-13-13R calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-20-13-13	Coaxial adapter, 3.5 mm (male) – 3.5 mm (male)	1
2	PK2-20-13R-13R	Coaxial adapter, 3.5 mm (female) – 3.5 mm (female)	1
3	PK2-20-13R-13	Coaxial adapter, 3.5 mm (female) – 3.5 mm (male)	1
4	NK3-20-13	Short circuit load, 3.5 mm (male)	1
5	NK3-20-13R	Short circuit load, 3.5 mm (female)	1
6	NH3-20-13	Open circuit load, 3.5 mm (male)	1
7	NH3-20-13R	Open circuit load, 3.5 mm (female)	1
8	NS3-20-13	Matched load, 3.5 mm (male)	2
9	NS3-20-13R	Matched load, 3.5 mm (female)	2
10	PKN2-20-13RN-13	Coaxial adapter, 3.5 mm NMD (female) – 3.5 mm (male)	2
11	PKN2-20-13RN-13R	Coaxial adapter, 3.5 mm NMD (female) – 3.5 mm (female)	2
Other accessories			
12	KT-2	Torque wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
13	KP-1	Support open-end wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
14	Manual		1
15	Digital data storage containing characteristics		1
16	Wooden case		1

NKMM-05-05R calibration kit

No.	Model	Description	Quantity, pcs
1	PK2-50-05-05	Coaxial adapter, 2.4 mm (male) – 2.4 mm (male)	1
2	PK2-50-05R-05R	Coaxial adapter, 2.4 mm (female) – 2.4 mm (female)	1
3	PK2-50-05R-05	Coaxial adapter, 2.4 mm (female) – 2.4 mm (male)	1
4	NK3-50-05	Short circuit load, 2.4 mm (male)	1
5	NK3-50-05R	Short circuit load, 2.4 mm (female)	1
6	NH3-50-05	Open circuit load, 2.4 mm (male)	1
7	NH3-50-05R	Open circuit load, 2.4 mm (female)	1
8	NS4-50-05	Matched load, 2.4 mm (male)	2
9	NS4-50-05R	Matched load, 2.4 mm (female)	2
10	PKN2-50-05RN-05	Coaxial adapter, 2.4 mm NMD (female) – 2.4 mm (male)	2
11	PKN2-50-05RN-05R	Coaxial adapter, 2.4 mm NMD (female) – 2.4 mm (female)	2
Other accessories			
12	KT-2	Torque wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
13	KP-1	Support open-end wrench for 2.4 mm; 2.92 mm; 3.5 mm; type IX, ver. 3	1
14	Manual		1
15	Digital data storage containing characteristics		1
16	Wooden case		1

NKMM-01 calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-18-01	Short circuit load, type III (male)	1
2	NH3-18-01	Open circuit load, type III (male)	1
3	NS3-18-01	Matched load, type III (male)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-11 calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-18-11	Short circuit load, type N (male)	1
2	NH3-18-11	Open circuit load, type N (male)	1
3	NS3-18-11	Matched load, type N (male)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-01R calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-18-01R	Short circuit load, type III (female)	1
2	NH3-18-01R	Open circuit load, type III (female)	1
3	NS3-18-01R	Matched load, type III (female)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-11R calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-18-11R	Short circuit load, type N (female)	1
2	NH3-18-11R	Open circuit load, type N (female)	1
3	NS3-18-11R	Matched load, type N (female)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-03 calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-20-03	Short circuit load, type IX, ver. 3 (male)	1
2	NH3-20-03	Open circuit load, type IX, ver. 3 (male)	1
3	NS3-20-03	Matched load, type IX, ver. 3 (male)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-13 calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-20-13	Short circuit load, 3.5 mm (male)	1
2	NH3-20-13	Open circuit load, 3.5 mm (male)	1
3	NS3-20-13	Matched load, 3.5 mm (male)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-03R calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-20-03R	Short circuit load, type IX, ver. 3 (female)	1
2	NH3-20-03R	Open circuit load, type IX, ver. 3 (female)	1
3	NS3-20-03R	Matched load, type IX, ver. 3 (female)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-13R calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-20-13R	Short circuit load, 3.5 mm (female)	1
2	NH3-20-13R	Open circuit load, 3.5 mm (female)	1
3	NS3-20-13R	Matched load, 3.5 mm (female)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-05 calibration kit

No.	Model	Description	Quantity, pcs
1	NK3-50-05	Short circuit load, 2.4 mm (male)	1
2	NH3-50-05	Open circuit load, 2.4 mm (male)	1
3	NS3-50-05	Matched load, 2.4 mm (male)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

NKMM-05R calibration kit

No.	Model	Description	Quantity,
1	NK3-50-05R	Short circuit load, 2.4 mm (female)	1
2	NH3-50-05R	Open circuit load, 2.4 mm (female)	1
3	NS3-50-05R	Matched load, 2.4 mm (female)	1
Other accessories			
4	Manual		1
5	Digital data storage containing characteristics		1
6	Wooden case		1

Ordering example

- NKMM-01-01R Calibration kit containing standards with type III connectors.