

K2M-102 complex for measurement of S-parameters of multiport devices

Features

- Operating frequency range from 100 MHz to 20 GHz
- Complete measurements with a single connection
- Measurement of S-parameters in all 256 states
- Complex calibration with 32-port electronic calibrator (SOLT)
- Saving measurement profiles for various device types
- Complete measurement data analysis, including cross measurements



Description

K2M-102 complex is designed to measure S-parameters of multiport high-frequency and microwave devices. R4M-18 two-port vector network analyzer with port number extension module and support of electronic calibrator allows measuring the parameters of devices comprising up to 32 ports.

Main capabilities

K2M-102 complex provides both direct and cross measurements, including insulation between ports. Electro-

mechanic switch module allows you to extend the number of ports on R4M-18 vector network analyzer. All measurements may be performed both automatically and manually, following the user-defined procedure. Measurement data are analyzed by special software in accordance with defined criteria, which provides easier use of the complex in process line. High precision and stability of the complex allow you to calibrate the complex only once before the entire measurement cycle. Output connector for complex status indication and independent control of an analyzed device is also provided.

Specifications

Operating frequency range	100 MHz ... 20 GHz
Output power level range	-90 ... 0 dBm
Maximum allowable relative output power setting error	± 2 dB
Reflection coefficient modulus measurement range, S11	0 ... 1
Transmission coefficient modulus measurement range, S21	-90 ... +50 dB

K2M-102 complex composition

Item	Quantity, pcs	Description
R4M-18/3	1	Vector network analyzer
PEM3-BUP	1	Control unit
PEM3-20-1-16-13R-13R	2	16-port electromechanical switch
PKU-11	1	Control and data display device
R4M-ЭK5-16 × 16-03R-03R*	1	Electronic calibrator, 32 ports
KS20A-13-13-600	32	Microwave cable, 0.6 m
KSF26-13RN-13N-1000	2	Microwave phase-stable cable, 1 m

* If required, the complex may be supplied with electronic calibrator R4M-EK5-16 × 16-16-16, with SMP connectors.

Ordering information

- K2M-102 is a software-hardware complex used to measure S-parameters of multipoint devices.