

Economic Calibration Kit

N4003A - 3G Economic Calibration Kit

N4006A - 6G Economic Calibration Kit

N4008A - 8.5G Economic Calibration Kit

Datasheet

Description

In network analysis applications, measurement errors can be classified in two categories: random and systematic errors both are frequency dependent quantities. Random errors, as the name depicts, it is non-repeatable, non-predictable and hence difficult to remove.



Systematic errors are repeatable and hence theoretically can be removed. Systematic errors include impedance mismatch, system frequency response and leakage signals. Without remove these errors, the test results can be significant affected.

N4003A, N4006A and N4008A are covers frequency response to 3GHz, 6GHz and 8.5GHz respectively. All these types calibration kit includes OPEN, SHORT and LOAD kits and all these 3 kits are packed in a round-shape enclosure. Results are not just durable but also easy to use.

In addition to these 3 calibration kit (standards), a precise engineered female-to-female adapter (precision 3.5mm) also included. These standards make the full 2-port calibration possible.

N4003A, N4006A and N4008A are precise mechanical engineered. All calibration kits are come with a unique 3 order polynomial definitions. The definitions file is stored in a USB storage device and can be easily imported to most network analyzer equipment. Upon properly calibrated, while the LOAD still attached, the network analyzer noise floor can be expected to be -70dB.

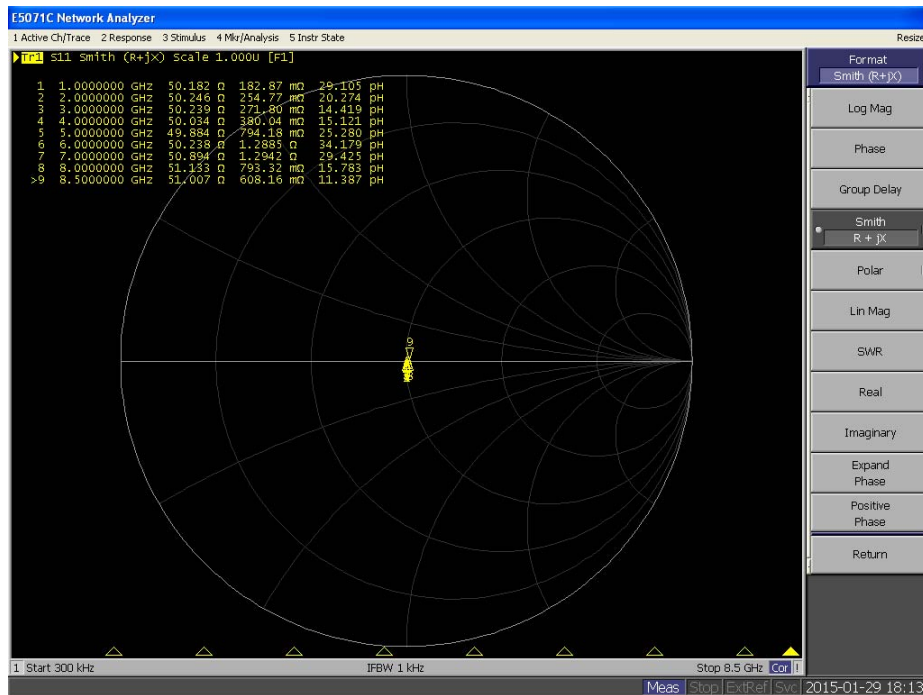
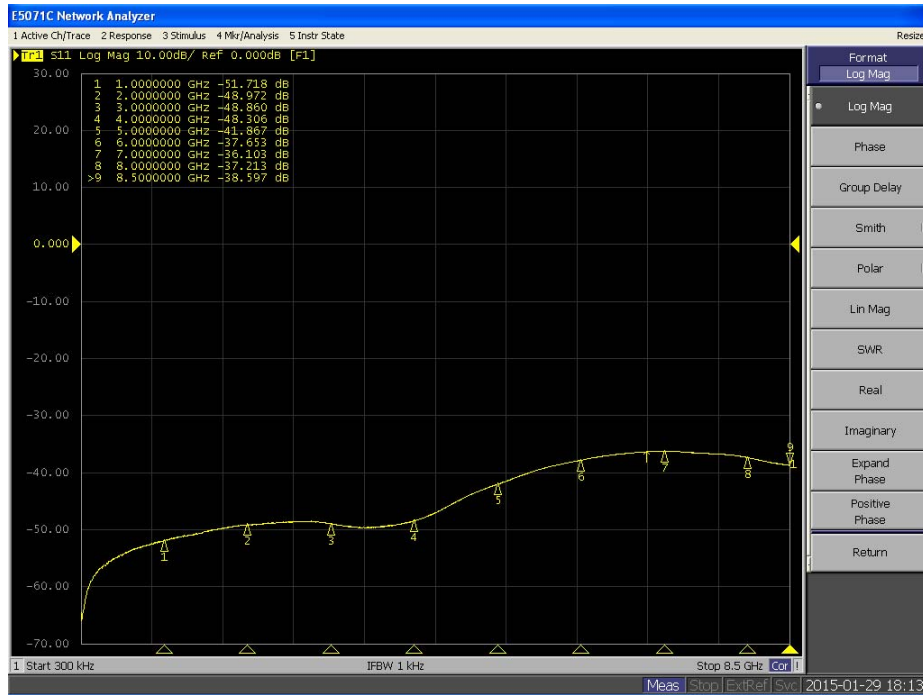
General Specifications

	N4003A	N4006A	N4008A
Frequency range	DC to 3 GHz	DC to 6 GHz	DC to 8.5 GHz
Weight	45 g (typical)		
Connectors	SMA (f)		

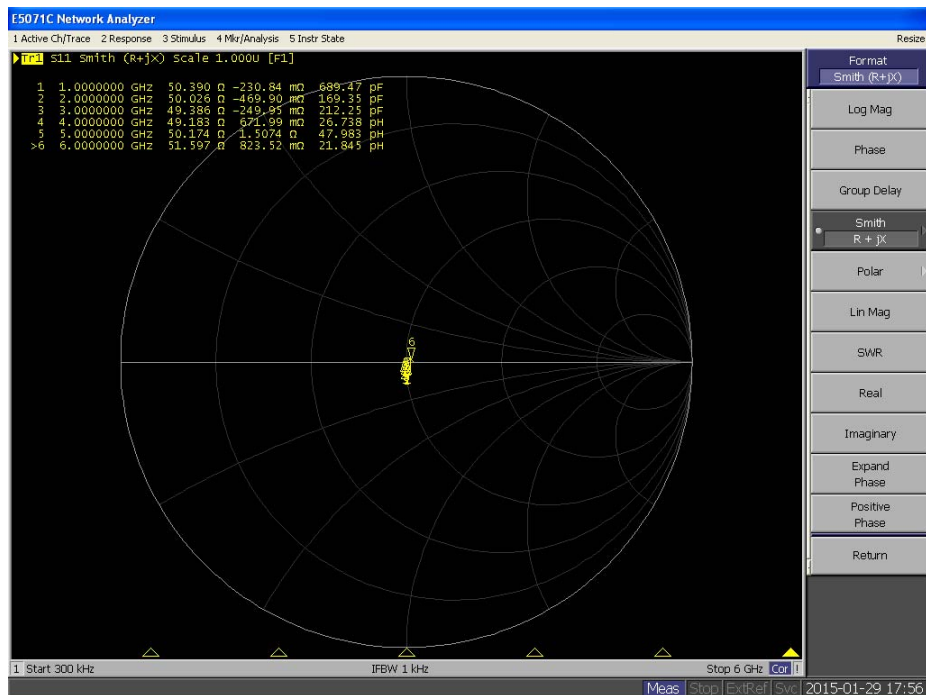
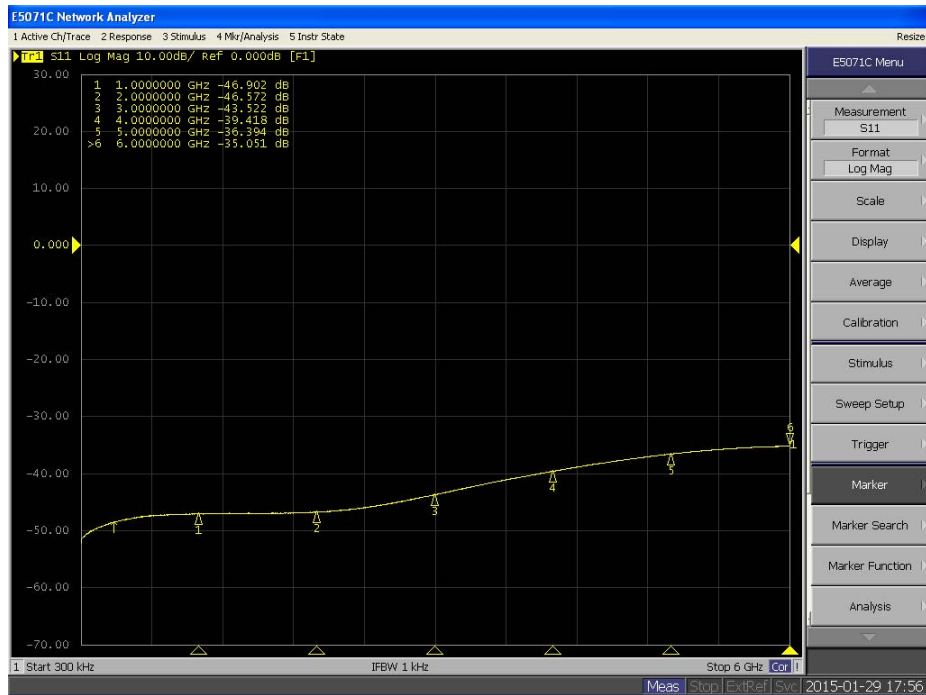
Typical Performance

With a calibrated VNA and the noise floor at roughly -70dB, then measuring E4003A/E4006A/E4008A, the typical performance is shown as the trace waveform below.

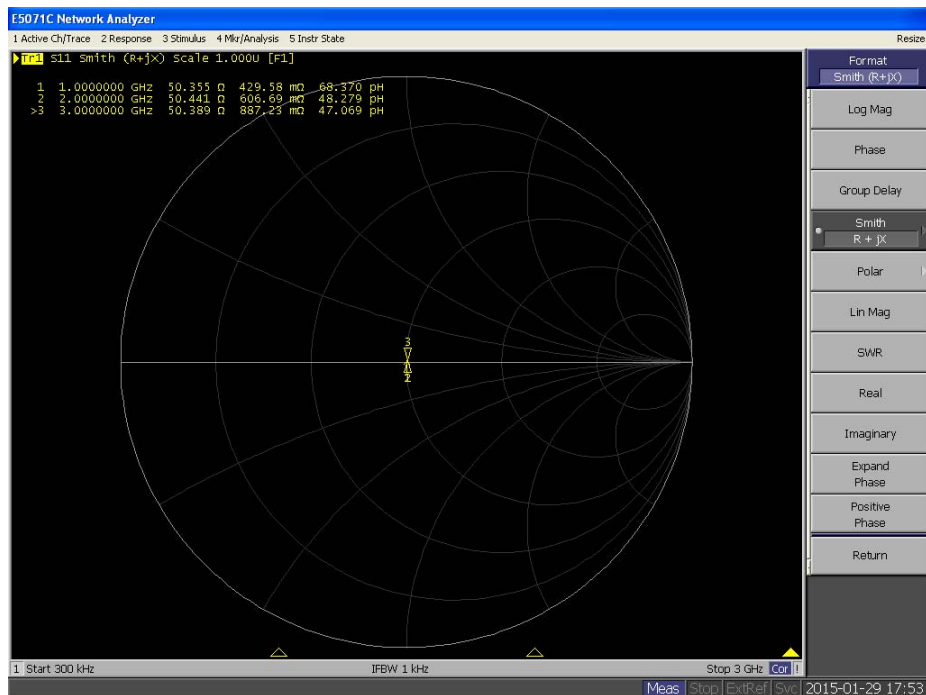
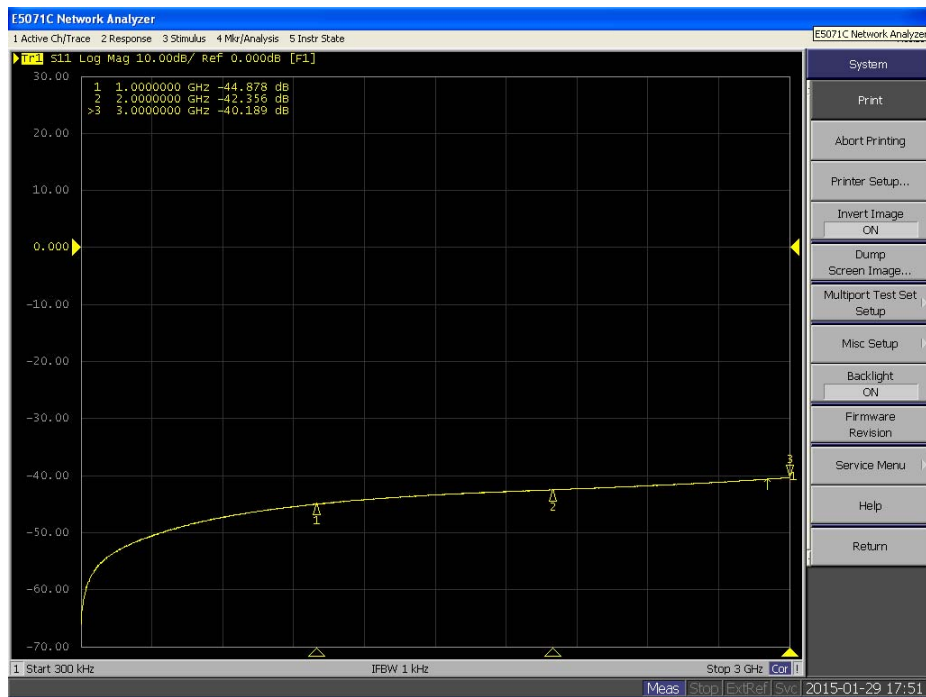
Typical Performance of N4008A (8.5G Economic Calibration Kit)



Typical Performance of N4006A (6G Economic Calibration Kit)



Typical Performance of N4003A (3G Economic Calibration Kit)



Environmental Specifications

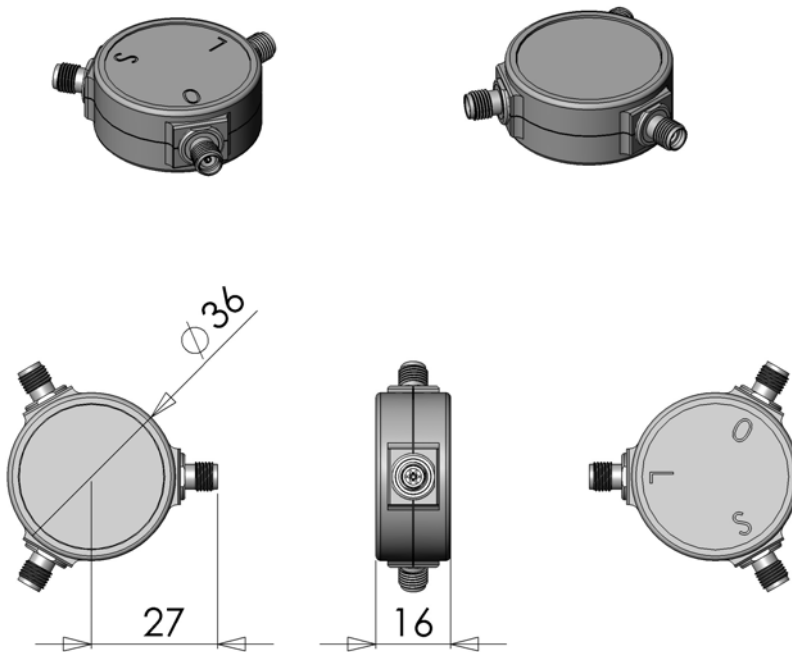
Temperature

Operating	0°C to 55 °C
Storage	-40 °C to 70 °C

Humidity

Operating / Storage	15 to 95% Relative Humidity (RH)
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Mechanical Dimensions (unit=mm)



Ordering Information

Economic Calibration Kit		
N4003AF	3G Economic Calibration Kit	SMA female unit only
N4006AF	6G Economic Calibration Kit	SMA female unit only
N4008AF	8.5G Economic Calibration Kit	SMA female unit only

Product specifications and descriptions in this document subject to change without notice.



LAB105 Technology Co., Ltd
Tel: +886-2-27420642
Fax: +886-2-27664185
<http://www.LAB105.com>