



BODE 100 Network Analyzer and its Applications.

Application Note Collection:

[Solar Cell Impedance Measurement](#)

In this application note we demonstrate how to measure the impedance of a photovoltaic module with the Bode 100.

[Low Value Impedance Measurements](#)

In this application note we show how very low impedance values can be measured with the Bode 100.

[Broadcast and Ham Radio Antenna Evaluation](#)

The Bode Analyzer Suite offers several useful functions to perform measurements on antennas of any kind.

[Measuring Optocouplers](#)

This document shows how to measure the current transfer ratio over frequency.

[Battery Impedance Measurement](#)

This application note shows how the Bode 100 is used to measure the impedance spectrum of a battery.

[Capacitor ESR Measurement](#)

The equivalent series resistance of a capacitor (ESR) is not always specified by the manufacturer. The Bode 100 with its impedance adapters offers an easy and fast way of measuring the ESR.

[Coaxial Cable Analysis and Fault Detection with the Bode 100](#)

This Appnote explains how the Bode 100 can be used to measure cable parameters such as the cable's dielectric constant. Further on it is demonstrated how the Bode 100 can be used to determine the position of a cable break.

[DC Biased Impedance Measurements](#)

Impedance can depend on the DC operation point. We show how the Bode 100 impedance measurement capabilities can be extended with the Picotest DC Bias Injector.

[DSL Cable Analysis with Bode 100](#)

The quality of a data connection depends very often on the twisted pair cable used for the network installation. Together with AESA-Cotaillod a leading provider in telecommunication cable measurement systems we have developed this application note that shows how the characteristic of a DSL cable can be checked with the Bode 100.

[Equivalent Circuit Analysis of Quartz Crystals](#)

Very often it is useful to know the equivalent circuit of a certain component. This application note demonstrates a simple way to get the equivalent circuit of a quartz crystal with the Bode 100.

[LDO Reverse Transfer Measurement](#)

This application note shows how the reverse transfer characteristic of a linear voltage regulator is measured using the Bode 100 and additional accessories

[DC/DC Converter Stability Measurement](#)

This application note explains how the Bode 100 can be used to measure the open loop gain of switched mode power supplies to analyze the control loop stability of voltage regulators.

[Noninvasive Stability Measurements of voltage regulators](#)

Sometimes you have no access to the feedback loop of a voltage regulator. This application note shows how you can measure the stability in such cases non-invasively.

[Op-Amp Measurements with Bode 100](#)

In this application note different methods are shown to measure the open loop gain of operational amplifiers.

[Passive Filter Design with QuickFil](#)

QuickFil is a powerful tool for the design of passive filters. This application note shows how to design and measure a bandpass filter using QuickFil and the Bode 100.

[Planar Transformer Measurement with Bode 100](#)

Winding failures in planar printed circuit transformers are sometimes hard to detect. We show how the Bode 100 can be used to detect failures in planar coils.

[Power Supply Rejection Ratio Measurement](#)



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The PSRR is an important quality indicator for power supplies. It can be easily measured with the Bode 100 and the PICOTEST J2120A Line Injector. This Application Note shows how.

[Radio Transmission Analysis](#)

The Bode 100 offers many useful functions to analyze radio transmission links. This application note shows impedance matching and attenuation measurements on a 27 MHz system.

[RFI Power Inlet Filter Measurement](#)

RFI (radio frequency interference) behavior is very important in nowadays electronic devices. We show how the characteristic of a standard RFI filter can be measured with the Bode 100.

[RFID Resonance Frequency Measurement](#)

It can be very important to measure the resonance frequency of a RFID tag without contacting the tag. This Application note shows how this measurement can be performed using the Bode 100.

[Small Signal Transformer Analysis with the Bode 100](#)

This Appnote explains how Bode 100 can be used to measure important transformer parameters like the coupling factor, resonance frequency and transfer function.

[Using Probes with Bode 100](#)

This Appnote explains how standard measurement probes can be used together with Bode 100 to perform gain/phase at points in electronic circuits not accessible with coaxial connectors.

[Voltage Regulator Crosstalk](#)

Voltage regulator crosstalk can cause serious problems in power supply systems. We show how to measure crosstalk easily