

23. Measurement Ranges and Accuracy

23.1. Accuracy of Impedance Measurement

The specification below applies for

Temperature 15 °C .. 25 °C

Oscillator level 1 Vrms

Reference measurement mode enabled

Auto reference capacitor mode enabled

Low impedance load short calibration enabled

Low capacity open calibration enabled

Impedance measured at the active cell sample ZGS electrodes or at the BNC impedance inputs of the interfaces ZG4 and ZG2 in 2-wire mode.

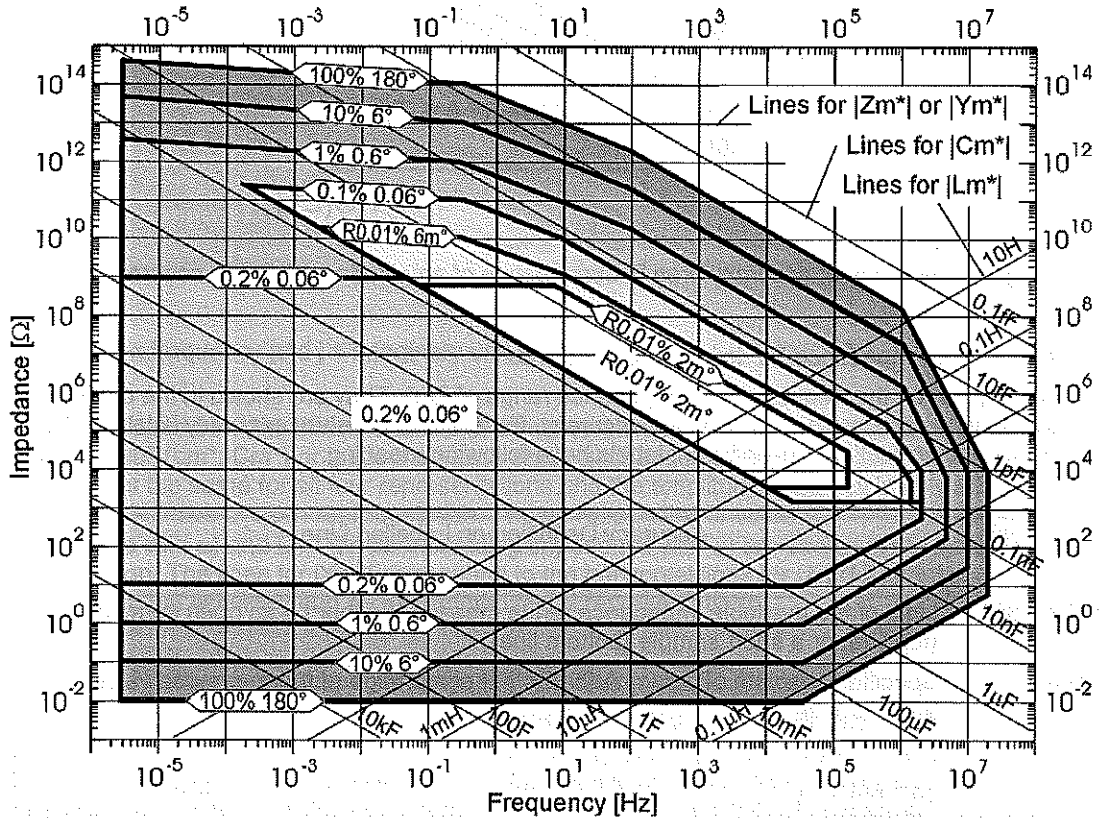


Fig. 44. Alpha impedance measurement accuracy specification

For impedance points in the areas between the lines of constant accuracy, the accuracy should be interpolated from the neighbored lines of constant accuracy.

The labels in the two inner areas show the accuracy within the entire area.

R denotes linearity within the labelled area or line. See details below.

For the mainframe types -AL and -AK the upper frequency limit is 0.3 and 3 MHz.