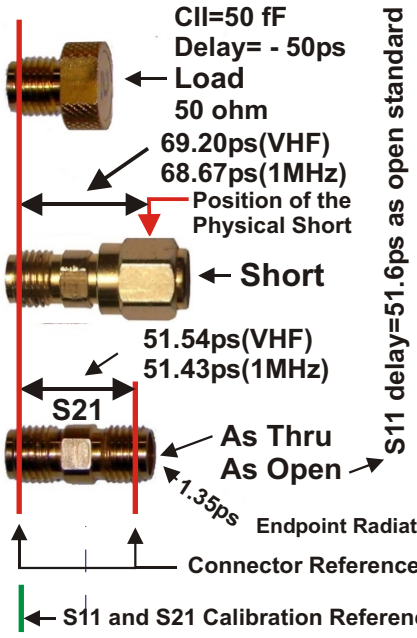
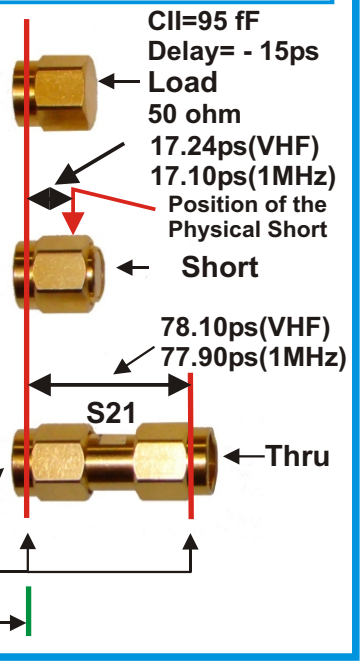
SDR-Kits - Amphenol Connex CAL Standards for the DG8SAQ VNWA

by Kurt Poulsen OZ7OU

Female Calibration Kit

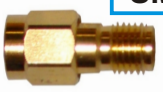


Male Calibration Kit



On this sheet you will find the settings required in "Calibration Settings" and "Arbitrary calibration" for the Reflection (S11/S22) and Transmission (S21/S12) calibrations.
- Please note the general guidelines described in Page 1 are also valid for arbitrary calibration.
- The speciality for arbitrary calibration is that more complex information can be entered for the open, short, load and thru calibration standards, such as e.g. a delay can be entered for the load, and for all calibration standard a formula can be entered which describes the frequency dependant parameters for a calibration standard.
- As an example the expression for the female load is the following: Y = 0.0200+i*w*50e-15 . As the load has a parasitic capacitance of 50fF in parrallel with the 50 ohm resistance, it is convenient to express them as Y parameters. 0.0200 equals the resistance 1/50 and the capacitors admittance is i*w*50e-15. i is the same as j, expressing we are delaing with an imaginary component. w equals to 2*pi*freq and 50e-15 is the capacitance of 50 fF.
Please note you must enter your loads with measured resistance (4 point measurement). If not known use 0.0200 and it will be within 1%.

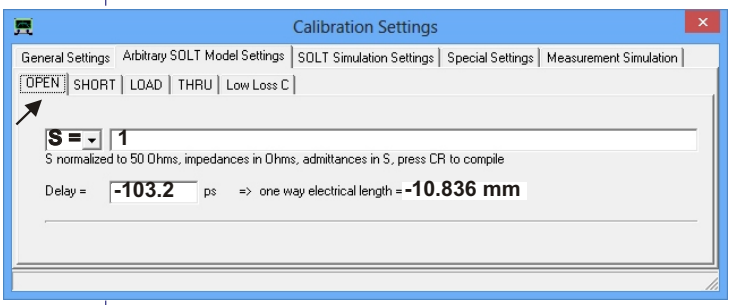
SMA Male-Female Adaptor

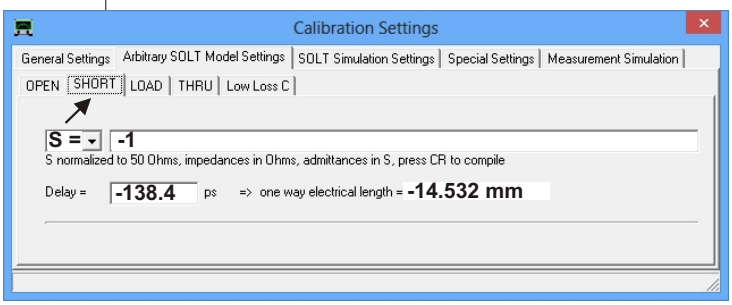


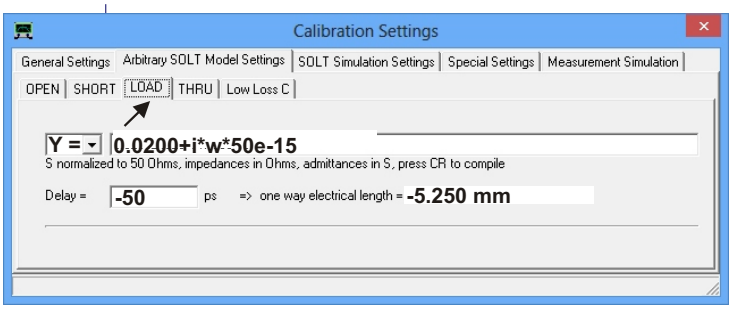
Delay=56,75ps

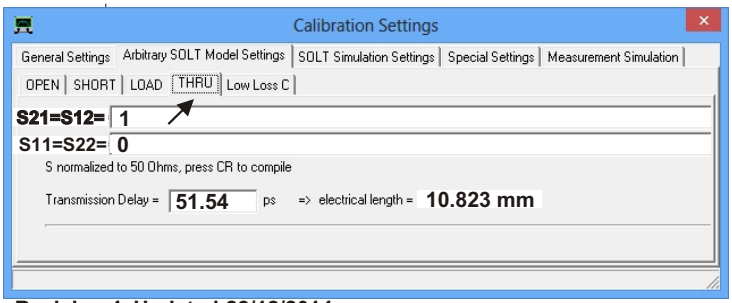
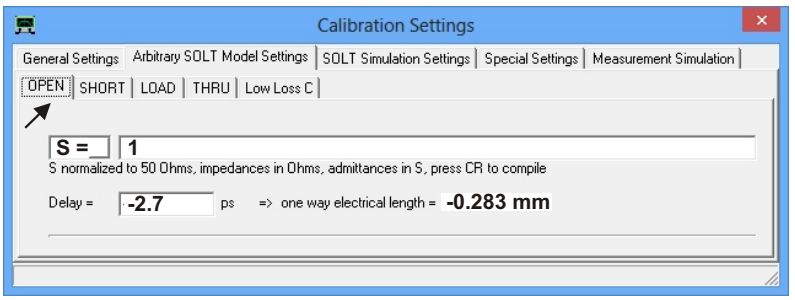
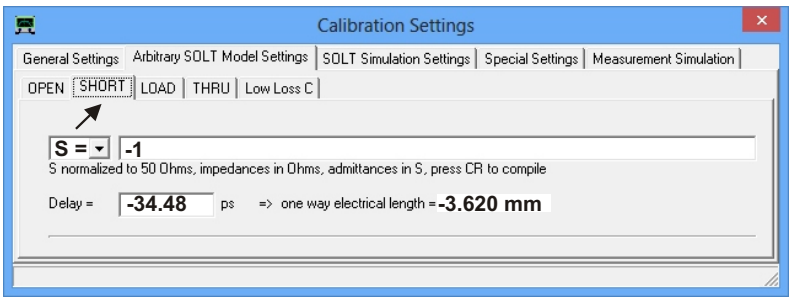
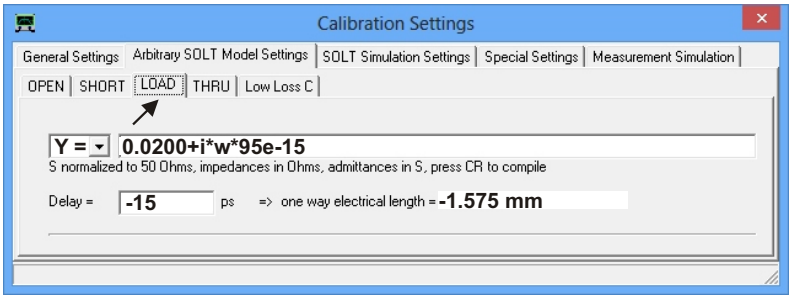
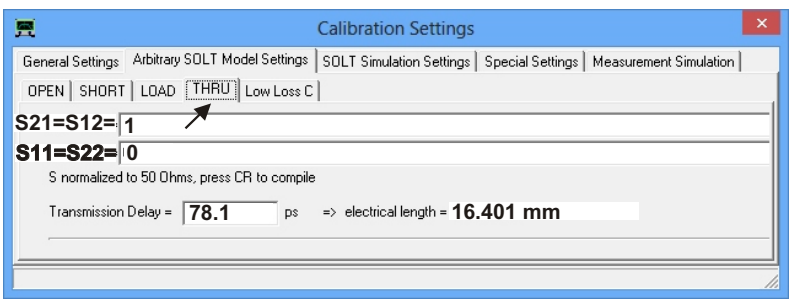
For protection of the VNWA TX and RX Port

Female Calibration Kit (VHF)









Male Calibration Kit (VHF)