

MODELITHICS CLR LIBRARY FOR MWO

USING THE EXAMPLE_CAP_PART_OPT_1 SCHEMATIC

The Example_CAP_PART_OPT_1 circuit illustrates the use of discrete part value optimization in MWO using the CAP_MUR_0805_001 model. Discrete optimization requires the creation of a vector array containing discrete part values (the C_val[] vector seen below) and a suitable optimization algorithm (such as Pointer – Robust Optimization).

Valid part values for the Modelithics Select version of the CAP_MUR_0805_001 model:

C_val={ 10,11,12,13,15,16,18,20,22,24,27,30,33,36,39,43,47,51,56,62,68,75,82,91,100,110,120,130,150,160,180,200,220,240,270,300,330,360,390,430,470 }

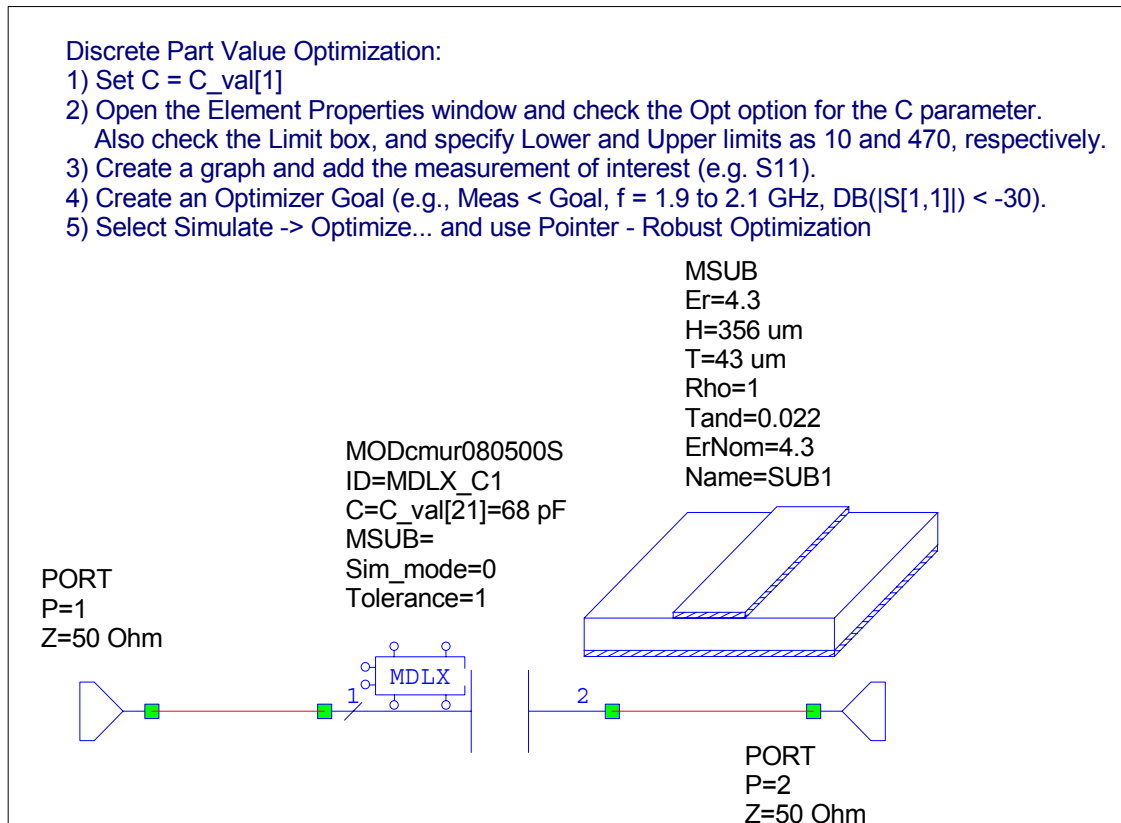


Figure 1 - Example circuit.

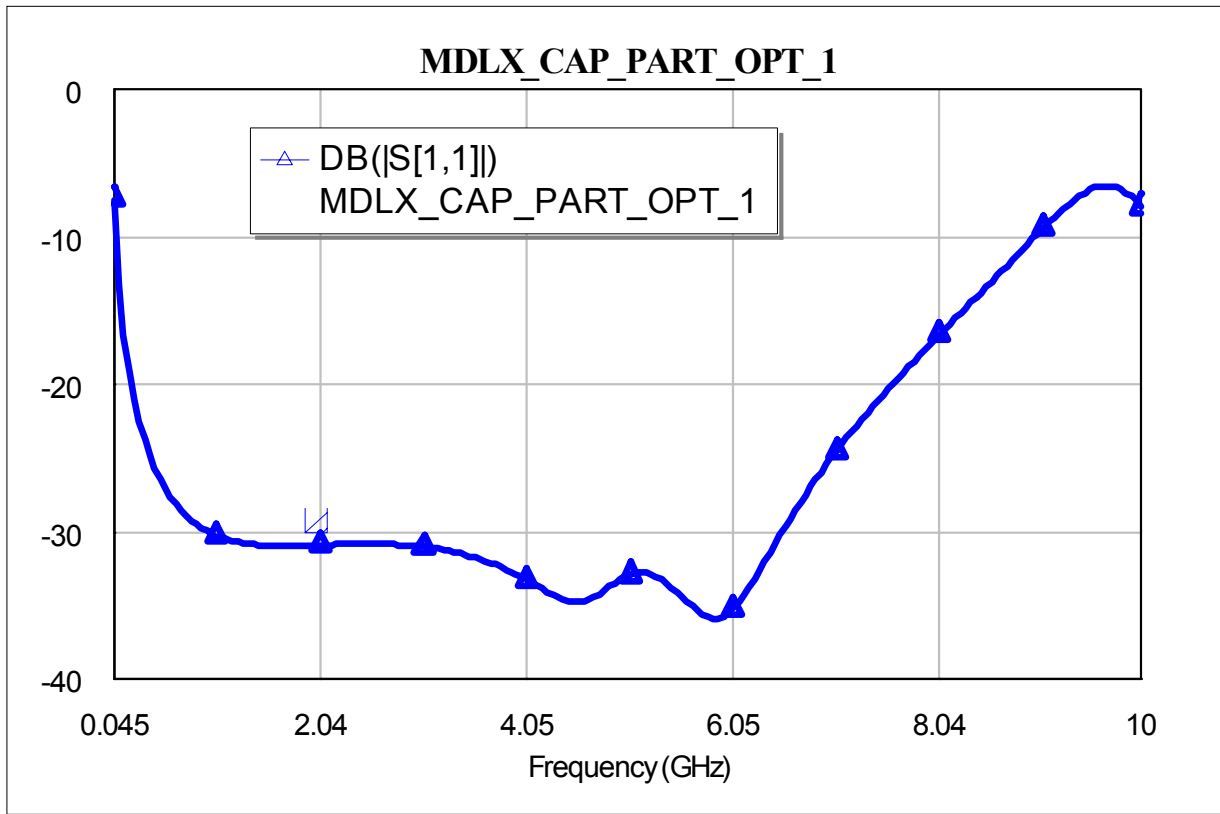


Figure 2 - Sample discrete part value optimization results.