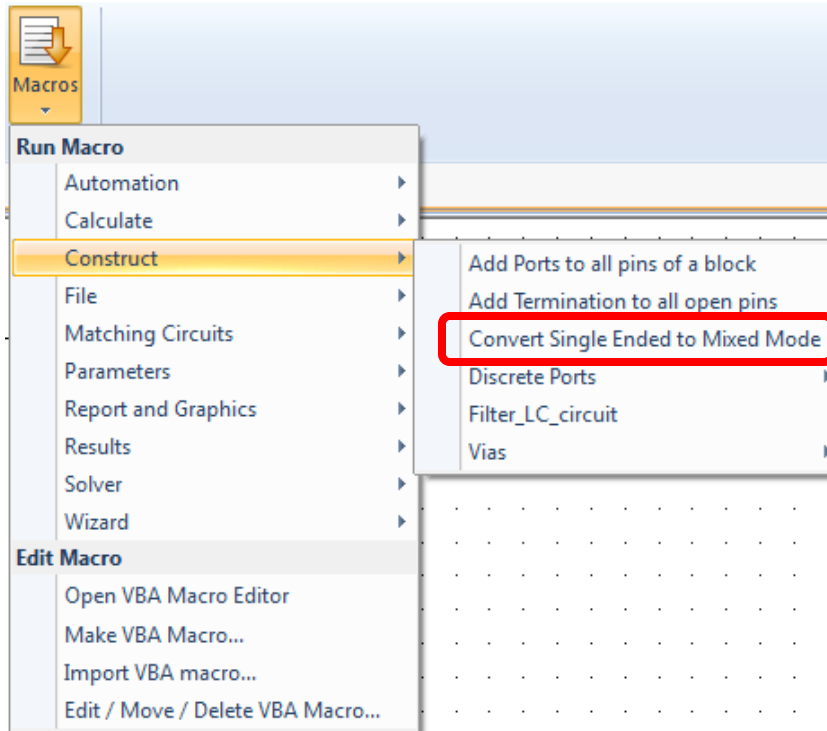
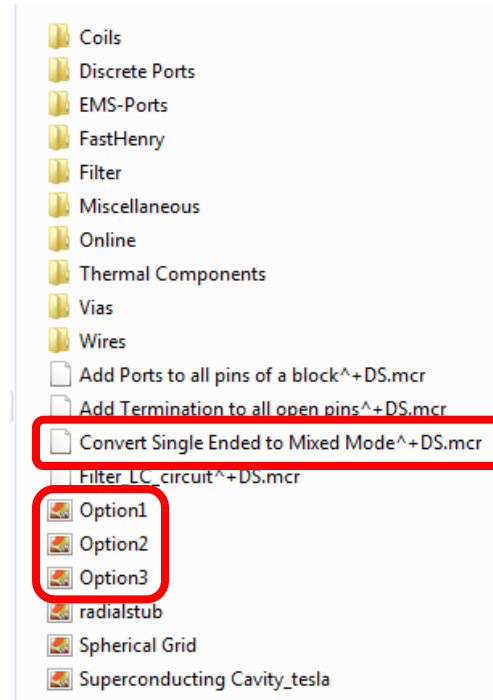


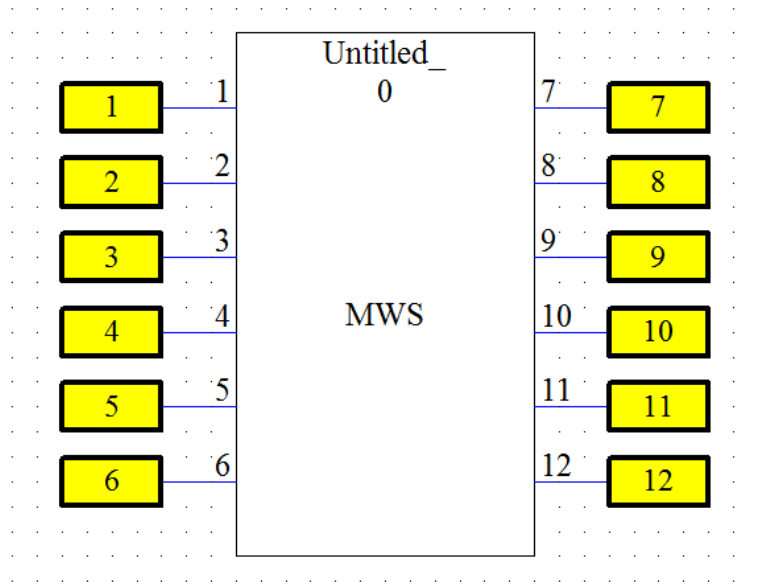
Macro



Installation path + \CST STUDIO SUITE
\Library\Macros\Construct



Single Ended Option



☒ Single Ended

Mixed Mode Configuration

☐ Port 1 --> 3, Port 2 --> 4, Port 5 --> 7, Port 6 --> 8, ...
(Single Ended Port Configuration)

*p/s: Insertion Loss == S2,1 after Mixed Mode Conversion

☐ Port 1 --> 2, Port 3 --> 4, Port 5 --> 6, Port 7 --> 8, ...
(Single Ended Port Configuration)

*p/s: Insertion Loss == S2,1 after Mixed Mode Conversion

☐ Port 1 --> 7, Port 2 --> 8, Port 3 --> 9, Port 4 --> 10,
(Single Ended Port Configuration)

*p/s: Insertion Loss == S2,1 after Mixed Mode Conversion

The diagrams show three different single-ended port configurations. Each configuration is represented by a yellow rectangular area with red dots at the ports. The first configuration shows ports 1, 2, 5, 6 on the left and 3, 4, 7, 8 on the right. The second configuration shows ports 1, 3, 5, 7 on the left and 2, 4, 6, 8 on the right. The third configuration shows ports 1, 3, 5 on the left and 7, 8, 9, 10 on the right.

☒ Differential Port

Ohm (Port or Load Impedance)

☐ Common Mode Port

Ohm (Port or Load Impedance)

1. External Port will be created if the options are checked. Otherwise, termination load will be created
2. Common Mode Port will be numbered after Differential Port
3. Impedance will be defined on either external port or termination load (depends on choices)
4. S2,1 will be insertion loss (differential or common mode if differential port is not defined)

Option 1



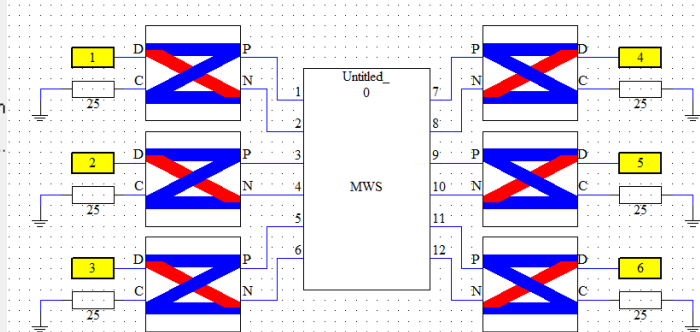
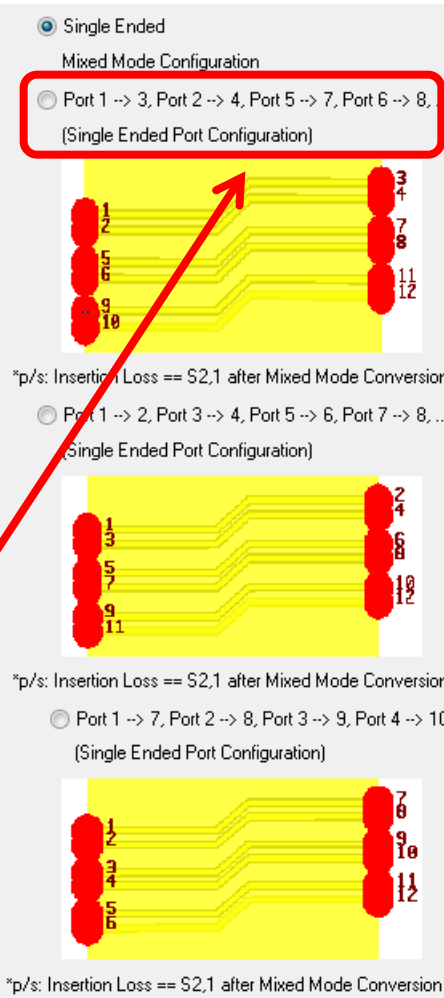
Single Ended Configuration

Port 1 → Port 3

Port 2 → Port 4

⋮

Port 10 → Port 12

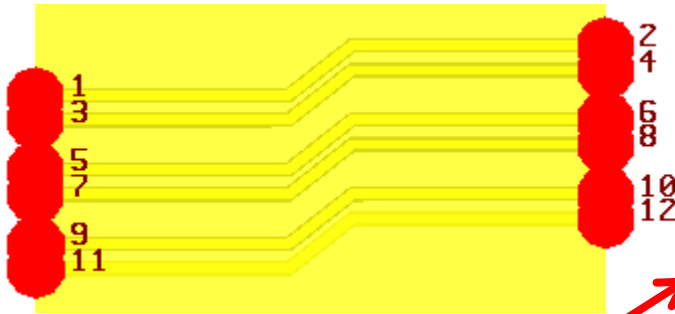


P → Port 1 ... P → Port 3

N → Port 2 ... N → Port 4

S2,1 → Differential
Insertion Loss

Option 2



Single Ended Configuration

Port 1 → Port 2

Port 3 → Port 4

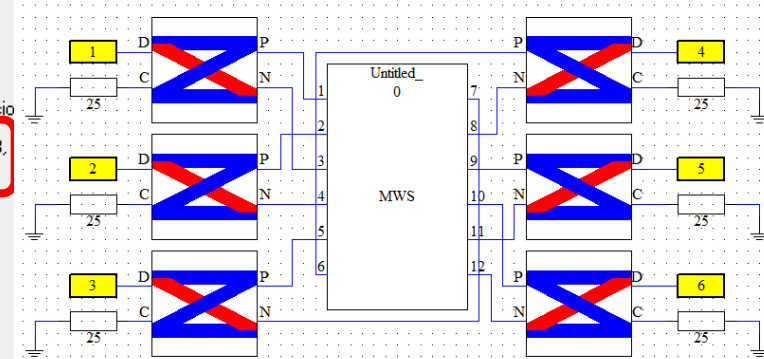
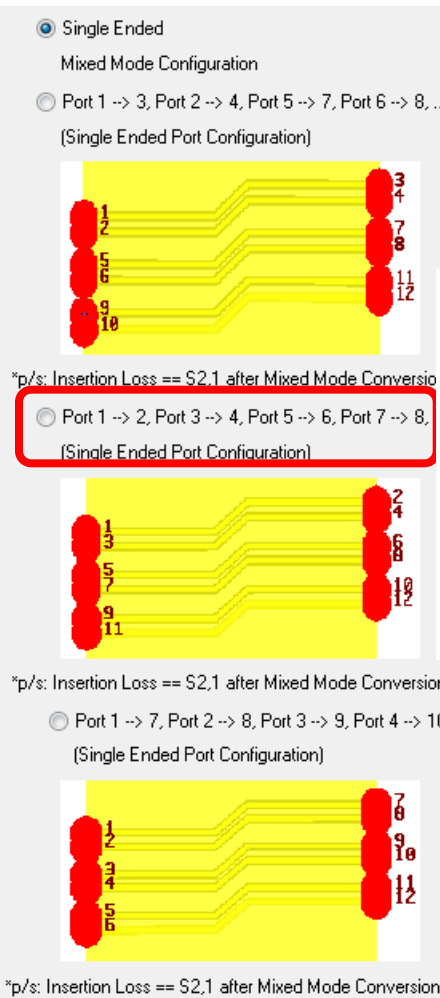
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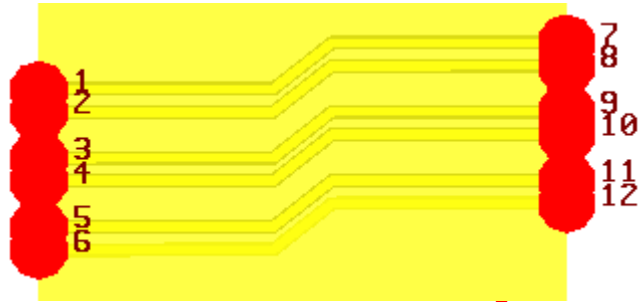
Port 10 → Port 12



P → Port 1 ... P → Port 2
N → Port 3 ... N → Port 4

S2,1 → Differential
Insertion Loss

Option 3



Single Ended Configuration

Port 1 → Port 7

Port 2 → Port 8

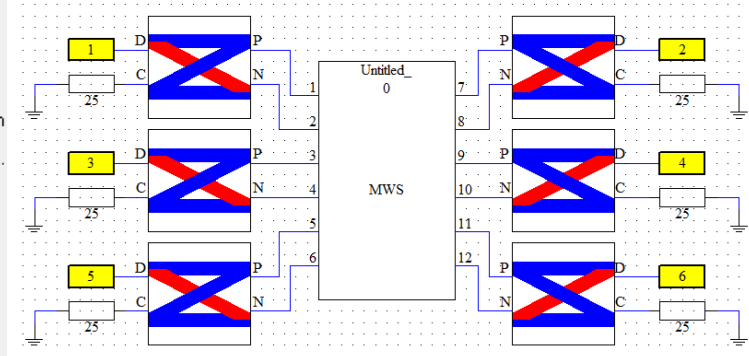
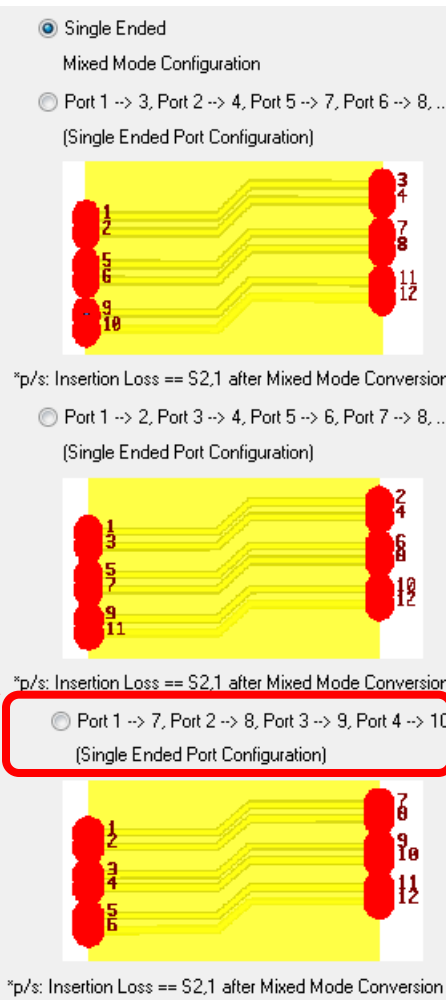
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Port 6 → Port 12



P → Port 1 ... P → Port 7
N → Port 2 ... N → Port 8

S2,1 → Differential
Insertion Loss