X2Y® SPICE CIRCUIT MODEL

c_a = c_b = Circuit 1 capacitance
l_a = l_b = Circuit 1 ESL
r_a1 = r_b1 = Circuit 1 ESR
k_1 = 1 - 2*(Circuit 2 ESL / Circuit 1 ESL)
X2Y® SPICE CIRCUIT MODEL

CKT1

A ONLY

CKT2
OVERLAPPING FLUX CANCELS

A + B

Infinite Capacitance, Coupled L

ESR LIMITED

CKT 1

ESL LIMITED

12dB

6dB

L_{CKT1}

K = 0.5

L_{CKT1}

OPEN

CKT2

INDUCTANCE:
2 \times \text{PARALLEL} = L/2
50\% \ \text{FLUX OVERLAP} = L/4

L_{CKT1}

L_{NET} = L_{CKT1}/4

K = 0.5

L_{CKT1}