

A

A

B

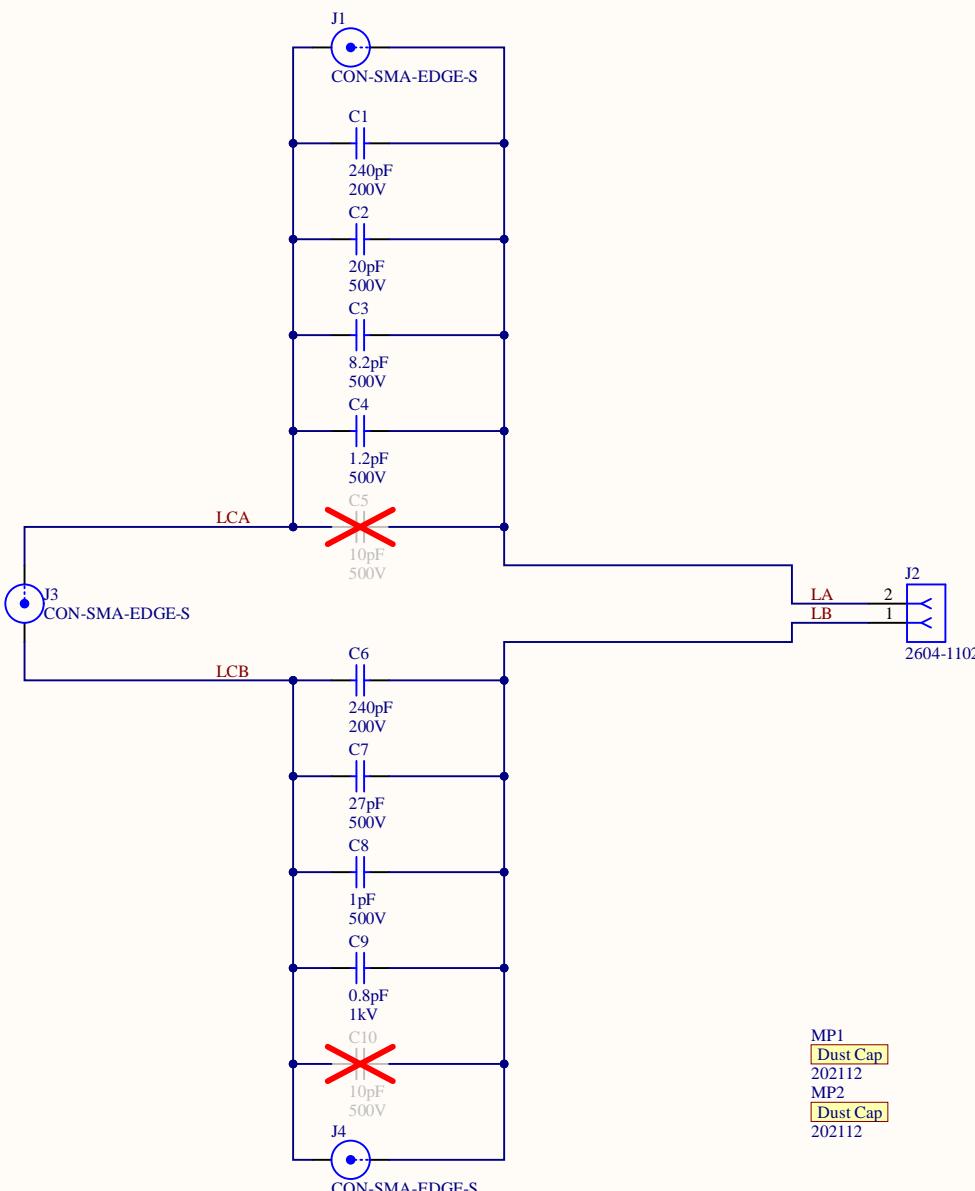
B

C

C

D

D



MP1
Dust Cap
202112

MP2
Dust Cap
202112

MTG1
M3 Screw Hole
MTG3
M3 Screw Hole

MTG2
M3 Screw Hole
MTG4
M3 Screw Hole

Title: **Coil Interface Board.SchDoc**

Desc: Variant: IX

Size: Letter Auth: Andrew Katz

VCS: Unknown revision

Date: 1/16/2026 1:07:09 AM AD Ver. 26.1.1.7 Doc. 1 Sheet 1 of 1

File: Coil Interface Board.SchDoc Proj: aakatz ESE 6710 Coil Interface Board.PrtPcb



www.seas.upenn.edu

Electrical and Systems Engineering

A

A

B

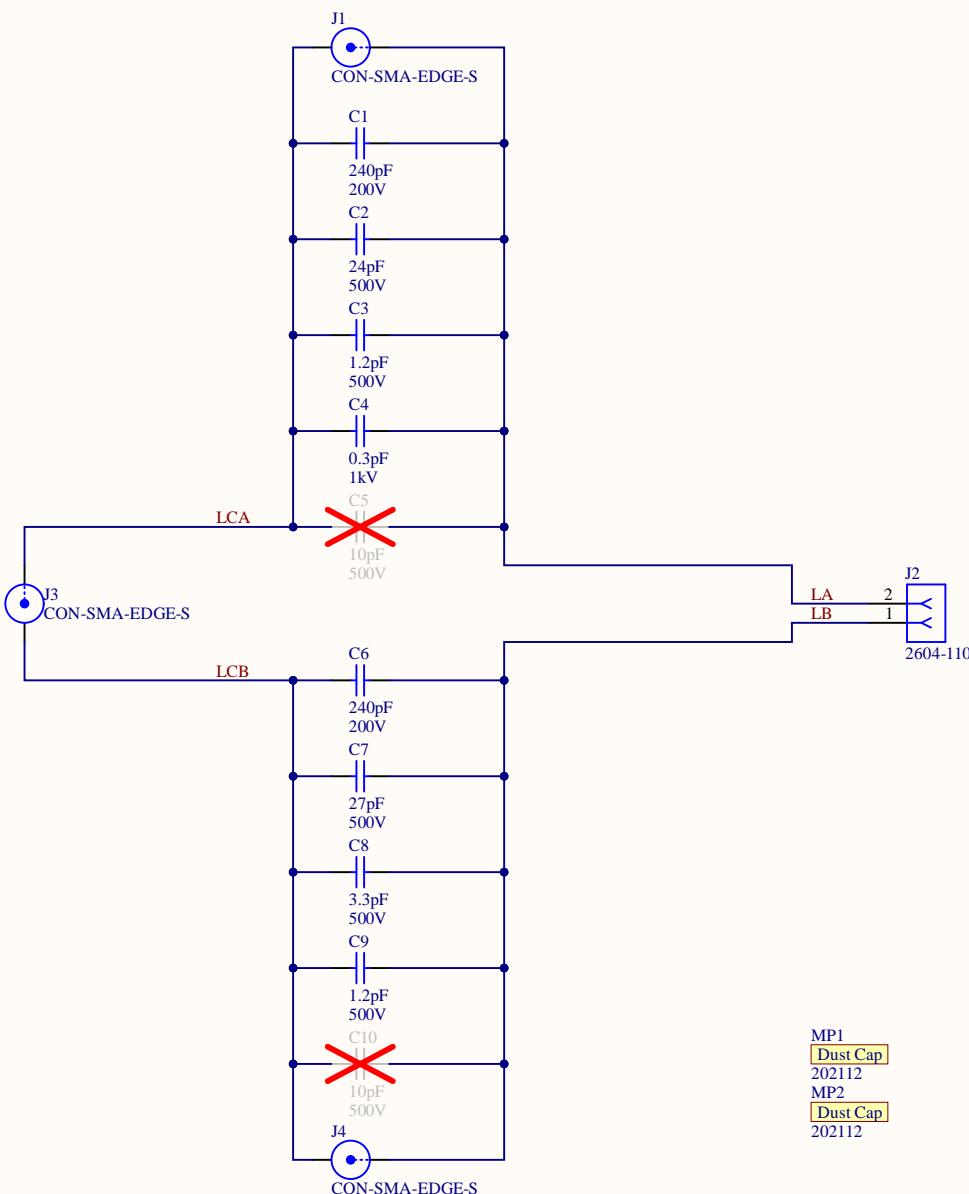
B

C

C

D

D



MP1
Dust Cap
202112

MP2
Dust Cap
202112

MTG1
M3 Screw Hole
MTG3
M3 Screw Hole
MTG2
M3 Screw Hole
MTG4
M3 Screw Hole

Title: **Coil Interface Board.SchDoc**

Desc: Variant: RX

Size: Letter Auth: Andrew Katz

VCS: Unknown revision

Date: 1/16/2026 1:07:09 AM AD Ver. 26.1.1.7 Doc. 1 Sheet 1 of 1

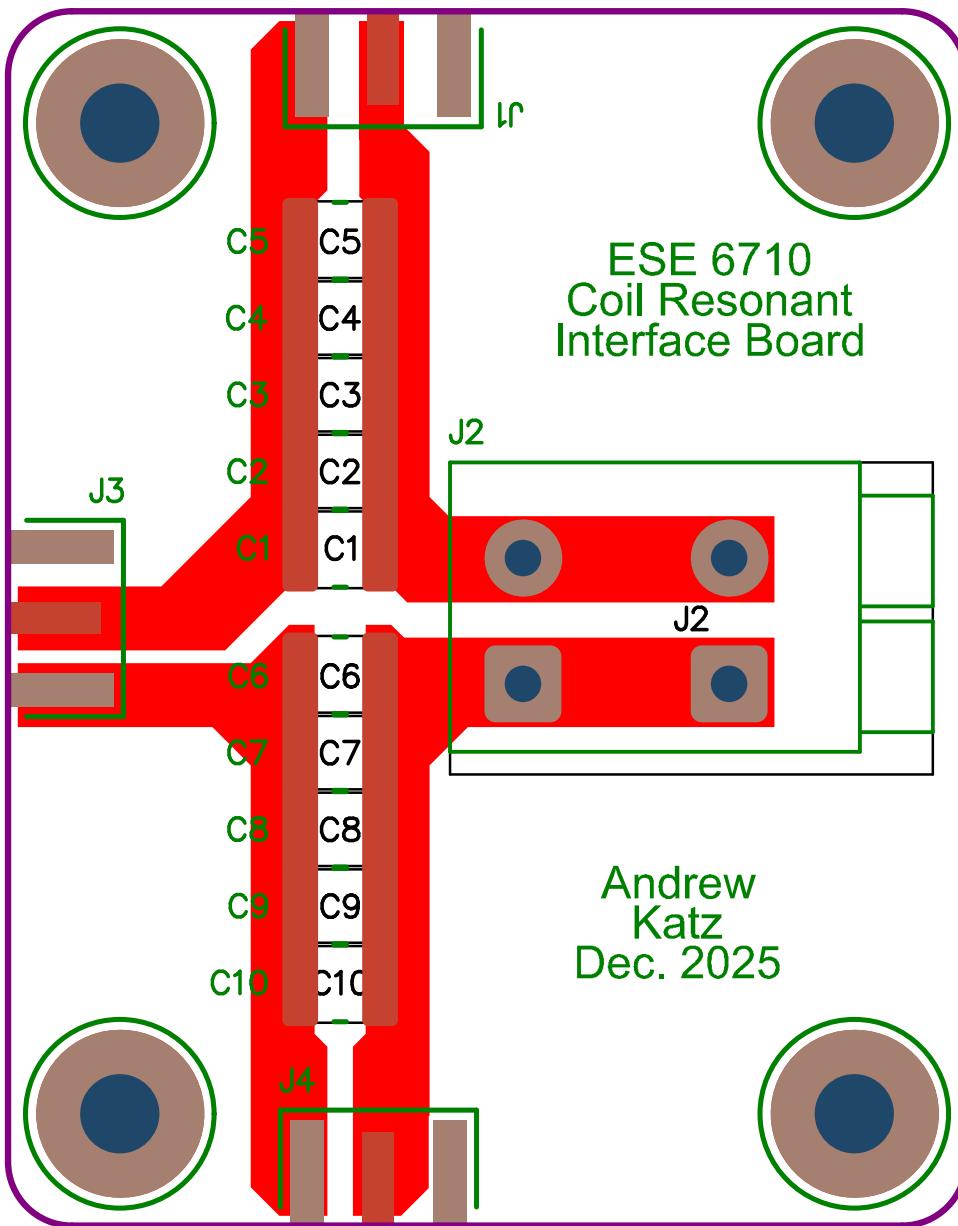
File: Coil Interface Board.SchDoc Proj: aakatz ESE 6710 Coil Interface Board.PrtPcb



www.seas.upenn.edu

Electrical and Systems Engineering

J1



ESE 6710
Coil Resonant
Interface Board

Andrew
Katz
Dec. 2025

J4

LineNo	Name	Designator	Value	Quantity	Variant	Manufacturer	ManufacturerPartNumber
1	800B241JT200XT	C1, C6	240pF	2	TX	KYOCERA AVX	800B241JT200XT
2	800B200JT500XT	C2	20pF	1	TX	KYOCERA AVX	800B200JT500XT
3	800B8R2BT500XT	C3	8.2pF	1	TX	KYOCERA AVX	800B8R2BT500XT
4	800B1R2BT500XT	C4	1.2pF	1	TX	KYOCERA AVX	800B1R2BT500XT
5	800B270JT500XT1K	C7	27pF	1	TX	KYOCERA AVX	800B270JT500XT1K
6	800B1R0BT500XT1K	C8	1pF	1	TX	KYOCERA AVX	800B1R0BT500XT1K
7	QCCT102Q0R8B1GV00 1E	C9	0.8pF	1	TX	Johanson	QCCT102Q0R8B1GV001E
8	CON-SMA-EDGE-S	J1, J3, J4		3	TX	RF Solutions	CON-SMA-EDGE-S
9	2604-1102	J2		1	TX	WAGO	2604-1102
10	202112	MP1, MP2		2	TX	Amphenol RF	202112

LineNo	Name	Designator	Value	Quantity	Variant	Manufacturer	ManufacturerPartNumber
1	800B241JT200XT	C1, C6	240pF	2	RX	KYOCERA AVX	800B241JT200XT
2	800B240JT500XT	C2	24pF	1	RX	KYOCERA AVX	800B240JT500XT
4	800B1R2BT500XT	C3, C9	1.2pF	2	RX	KYOCERA AVX	800B1R2BT500XT
6	QCCT102Q0R3A1GV00 1E	C4	0.3pF	1	RX	Johanson	QCCT102Q0R3A1GV001E
5	800B270JT500XT1K	C7	27pF	1	RX	KYOCERA AVX	800B270JT500XT1K
7	800B3R3BT500XT	C8	3.3pF	1	RX	KYOCERA AVX	800B3R3BT500XT1K
8	CON-SMA-EDGE-S	J1, J3, J4		3	RX	RF Solutions	CON-SMA-EDGE-S
9	2604-1102	J2		1	RX	WAGO	2604-1102
10	202112	MP1, MP2		2	RX	Amphenol RF	202112