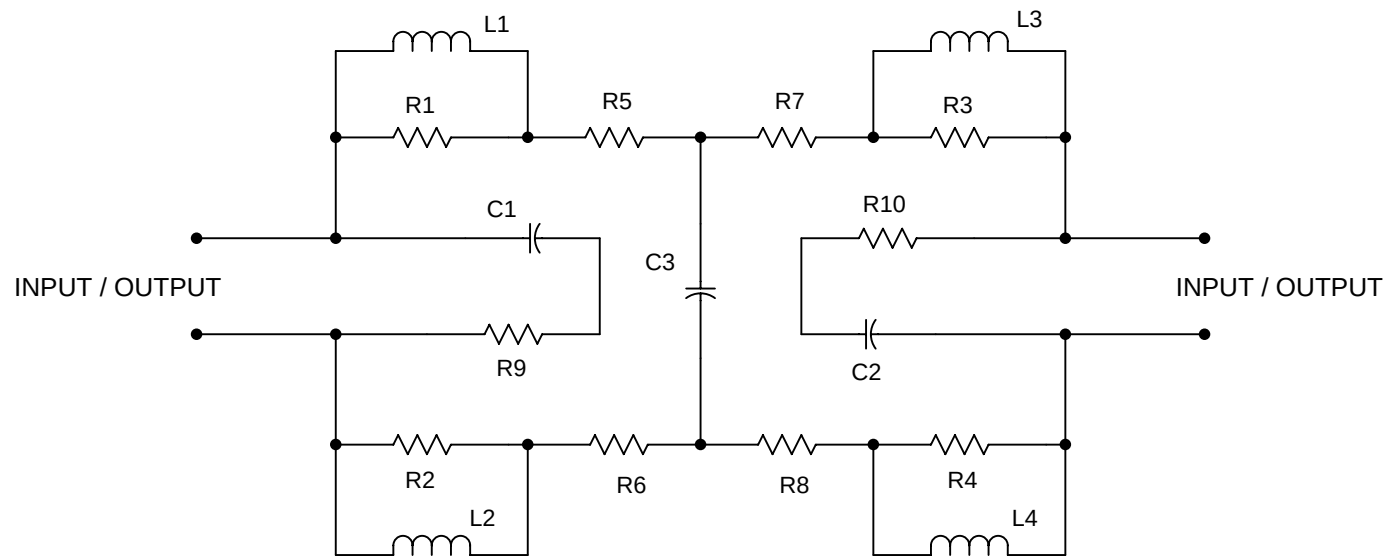




Title			
QUAD SIMULATION NETWORK			
Size	Number		Rev
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Simulated Length: 3.5 km

Reference Designator	Component Value	Manufacturer	Mfg. Part No.	Digi-Key Stock No.
L1, L2, L3, L4	39 uH, +/- 10%, 1.0 Amps	J.W. Miller	5800-390	M5813-ND
C1, C2	0.33 uF, +/- 5%, 250 VDC	EPCOS Inc.	B32652A3334J	495-1297-ND
C3	3.6 nF, +/- 2%, 400 VDC	BC Components	2222 419 43602	BC2203-ND
R1, R2, R3, R4	86.6 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-86R6	86.6XBK-ND
R5, R6, R7, R8	39.2 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-39R2	39.2XBK-ND
R9, R10	340 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-340R	340XBK-ND

Simulated Length: 3.0 km

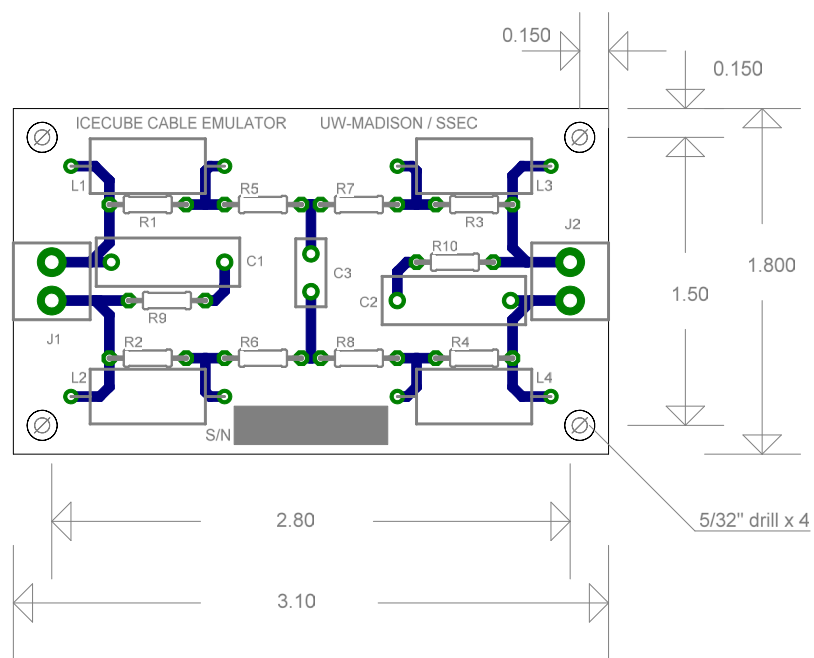
Reference Designator	Component Value	Manufacturer	Mfg. Part No.	Digi-Key Stock No.
L1, L2, L3, L4	33 uH, +/- 10%, 1.0 Amps	J.W. Miller	5800-330	M5812-ND
C1, C2	0.33 uF, +/- 5%, 250 VDC	EPCOS Inc.	B32652A3334J	495-1297-ND
C3	3.3 nF, +/- 2%, 400 VDC	BC Components	2222 419 43302	BC2201-ND
R1, R2, R3, R4	82.5 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-82R5	82.5XBK-ND
R5, R6, R7, R8	33.2 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-33R2	33.2XBK-ND
R9, R10	383 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-383R	383XBK-ND

Simulated Length: 2.0 km

Reference Designator	Component Value	Manufacturer	Mfg. Part No.	Digi-Key Stock No.
L1, L2, L3, L4	22 uH, +/- 10%, 1.0 Amps	J.W. Miller	5800-220	M5810-ND
C1, C2	0.33 uF, +/- 5%, 250 VDC	EPCOS Inc.	B32652A3334J	495-1297-ND
C3	2.4 nF, +/- 2%, 400 VDC	BC Components	2222 419 42402	BC2195-ND
R1, R2, R3, R4	78.7 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-78R7	78.7XBK-ND
R5, R6, R7, R8	21.0 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-21R0	21.0XBK-ND
R9, R10	523 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-523R	523XBK-ND

Simulated Length: 0.5 km Risettime: 300 ns

Reference Designator	Component Value	Manufacturer	Mfg. Part No.	Digi-Key Stock No.
L1, L2, L3, L4	8.2 uH, +/- 10%, 1.0 Amps	J.W. Miller	5800-8R2	M5805-ND
C1, C2	0.33 uF, +/- 5%, 250 VDC	EPCOS Inc.	B32652A3334J	495-1297-ND
C3	1.0 nF, +/- 2%, 400 VDC	BC Components	2222 419 41002	BC2177-ND
R1, R2, R3, R4	84.5 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-84R5	84.5XBK-ND
R5, R6, R7, R8	21.0 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-21R0	21.0XBK-ND
R9, R10	576 ohms, +/- 1%, 0.25W	Yageo	MFR-25FBF-576R	576XBK-ND



Circuit Design by Andy Laudrie 01-26-2004 (Quad Simulation Network Rev B)

Board Layout by Nobuyoshi Kitamura

EAGLE-4.09 CableFit2.brd

Layout rule: 0.05" trace width, 0.025" grid

Material FR4, 0.0625" thick, 1 oz Copper on bottom side only.

1/26/2004 NK