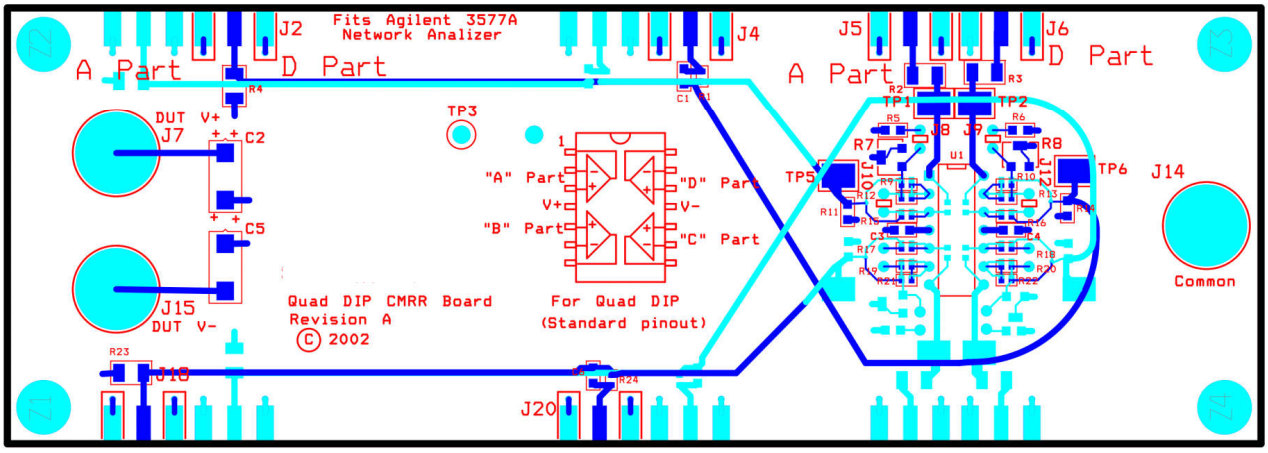
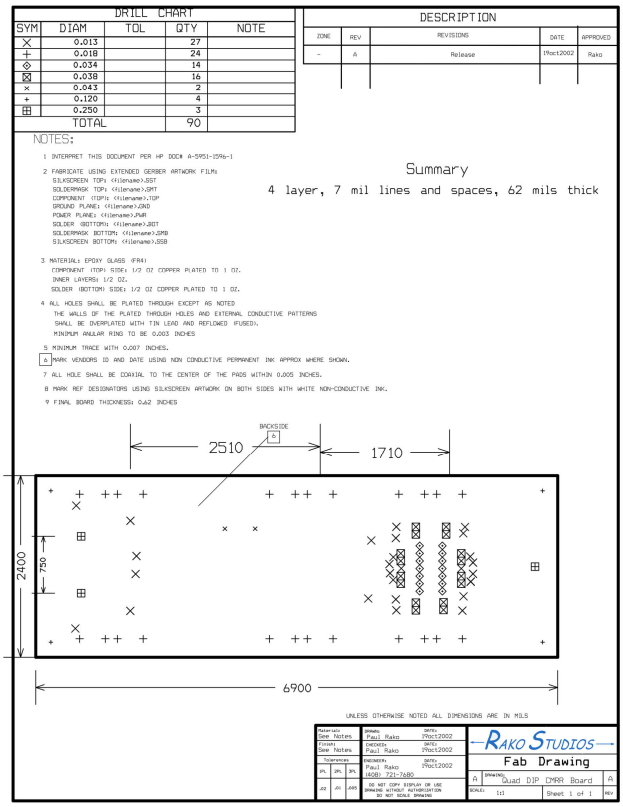
RAKO STUDIOS

Quad DIP CMRR board

Measure the CMRR (common-mode rejection ratio) of a quad-part IC in a DIP package.



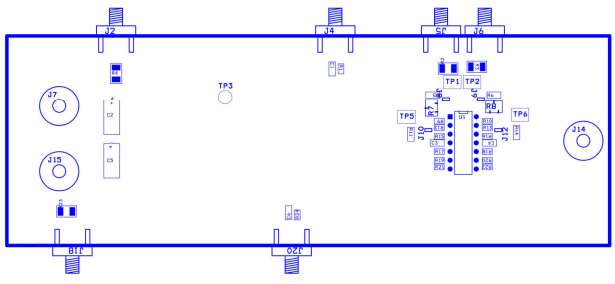
OrCAD 9 PCB (printed circuit board). Fab:

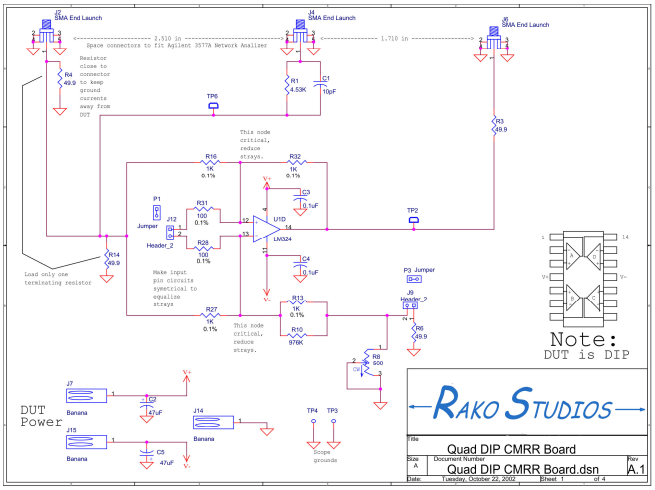


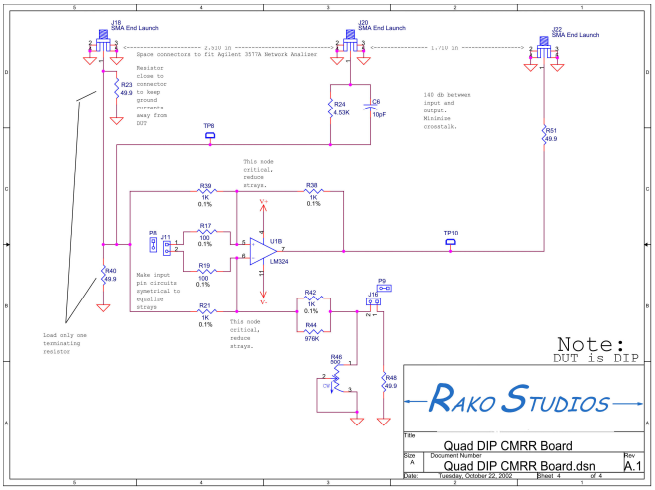
This board mounts SMA connectors that screw directly into an HP3577A network analyzer. This removes any effect from cables. The BOM (pdfs in design files).

Itm	Qty	Reference	Part	Manufacturer	Man#	Digikey#	Price/100	Footprint
1	4	C1,C6,C7,C8	10pF	BC Components	0805N100J500NT	BC1256CT-ND	0.03580	SM/C_0805
2	2	C2,C5	47uF	Kemet	T491D476K016AS	399-1603-1-ND	1.02600	SM/CT_7343_12
3	2	C4,C3	0.1uF	BC Components	0805B104K500BP	BC1298CT-ND	0.07800	SM/C_0805
4	12	J1,J2,J3,J4,J5,J6,J18, J19,J20,J21,J22,J23	SMA End Launch	Johnson	142-0701-801	J502-ND	3.27600	SMA_END
5	3	J7,J14,J15	Banana	Johnson	108-0740-001	J147-ND	0.79230	BANANA
6	8	J8,J9,J10,J11,J12,J13, J16,J17	Header_2	Molex	22-10-2021	WM2722-ND	0.31300	JUMPER100
7	8	P1,P3,P4,P5,P6,P7,P8,P9	Jumper	3M	929957-08	929957-08-ND	0.15800	
8	4	R1,R24,R25,R52	4.53K	Yageo	9C06031A4531FKHFT	311-4.53KHCT-ND	0.02785	SM/C_0603
9	8	R2,R3,R4,R23,R26,R49,R50, R51	49.9	Panasonic	ERJ-14NF49R9U	P49.9AACT-ND	0.11690	SM/C_1210
10	8	R5,R6,R11,R14,R35,R40, R47,R48	49.9	Panasonic	ERJ-6ENF49R9V	P49.9CCT-ND	0.02805	SM/C_0805
11	4	R7,R8,R45,R46	500	BC Components	SM4W501	SM4W501-ND	2.93750	SM4W
12	4	R9,R10,R43,R44	976K	Yageo	9C06031A0763FKHFT	311-976KHCT-ND	0.02785	SM/C_0603
13	16	R12,R13,R15,R16,R21,R22, R27,R29,R32,R33,R36,R37, R38,R39,R41,R42	1K	Panasonic	ERA-3YEB102V	P1.0KYCT-ND	0.39900	SM/C_0603
14	8	R17,R18,R19,R20,R28,R30, R31,R34	100	Panasonic	ERA-3YEB101V	P100YCT-ND	0.39900	SM/C_0603
15	8	TP1,TP2,TP5,TP6,TP7,TP8, TP9,TP10	Test Point, SM_5016	Keystone	5016	5016KCT-ND	0.19592	TEST_POINT_5016
16	2	TP3,TP4	Scope Ground	Mill-Max	3103-2-00-21-0000080	ED5052-ND	0.07140	PAD_0.043_HOLE
17	1	U1	LM324					DIP.100/14/W.300/L.725

The assembly drawing. This page has image files of the actual pdf, OrCAD, and Gerber files in the design files.




Note:
DUT is DIP
RAKO STUDIOS
Quad DIP CMRR Board
Quad DIP CMRR Board.dsn
A.1


Note:
DUT is DIP
RAKO STUDIOS
Quad DIP CMRR Board
Quad DIP CMRR Board.dsn
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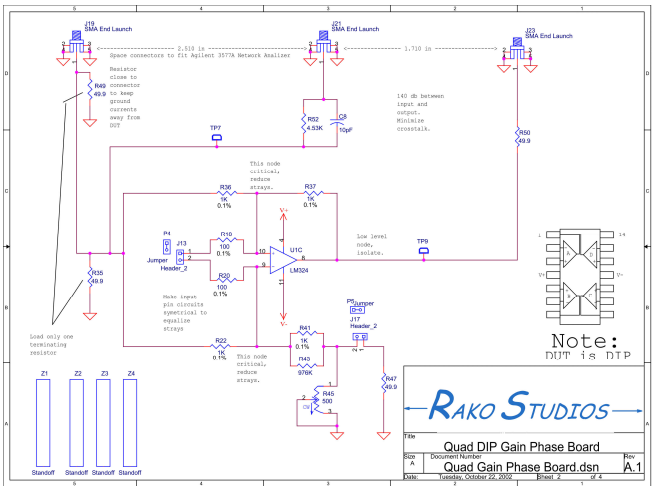
Note:
DUT is DIP
RAKO STUDIOS
Quad DIP Gain Phase Board
Quad Gain Phase Board.dsn
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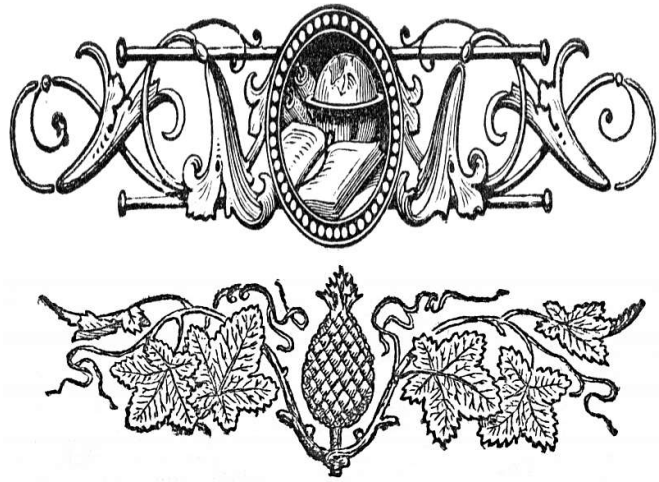

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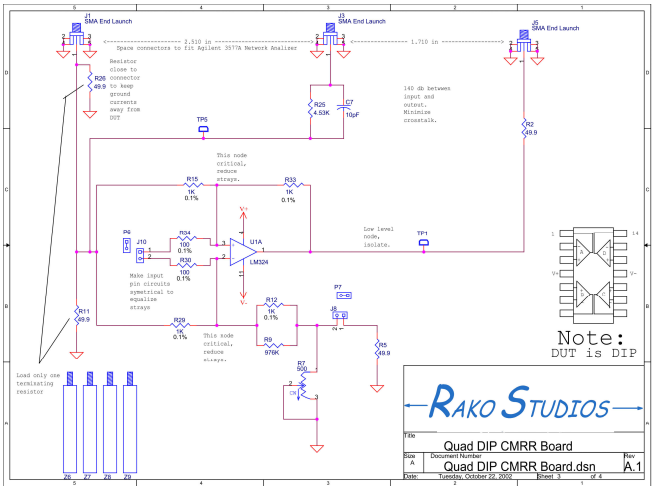
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RAKO STUDIOS
Quad DIP CMRR Board
Quad DIP CMRR Board.dsn
A.1