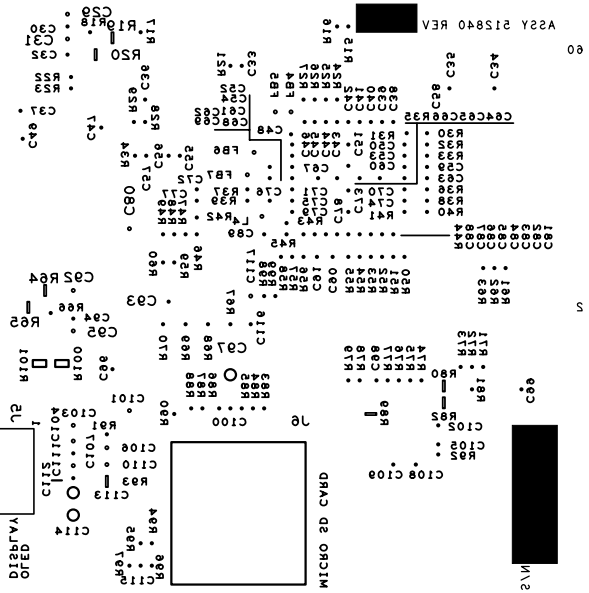

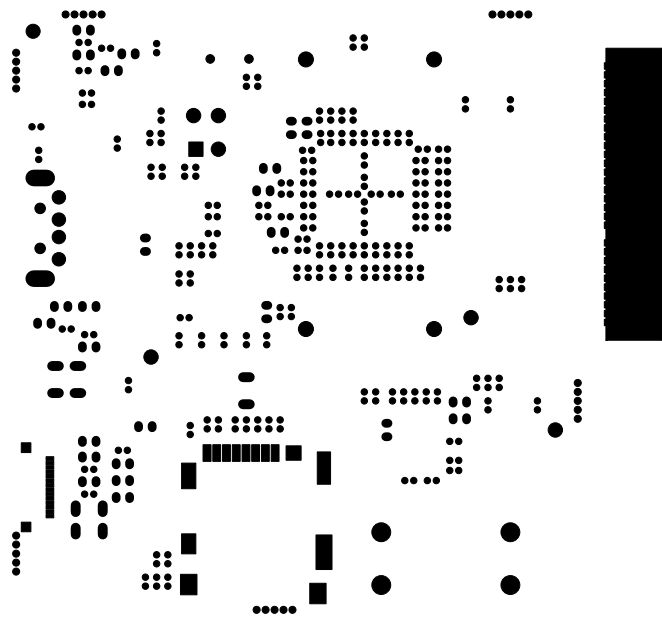


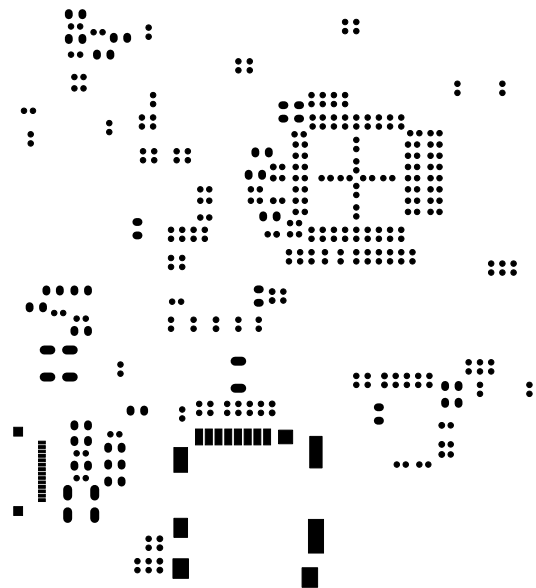
	TURNING CONCEPT INTO REALITY		SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778		LAYER 6 SOLDER	512321 REV C
			DATE : 10/07/09	



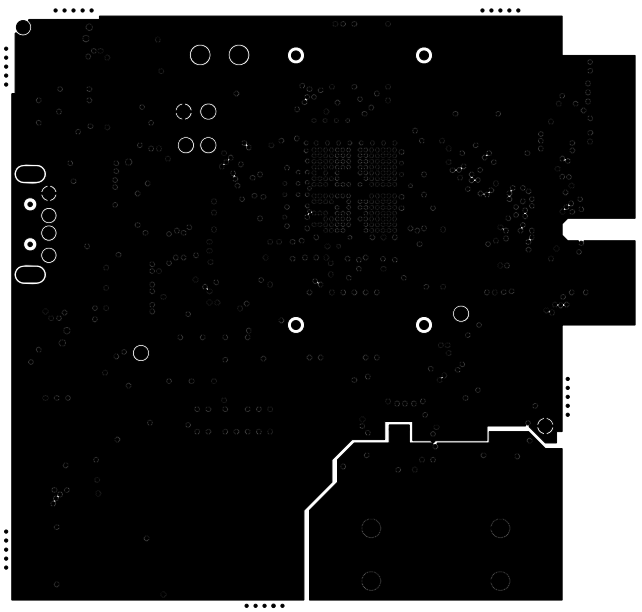
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	<p>4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778</p>		<p>BSLK</p>	<p>512321 REV C</p>
	<p>DATE: 10/07/09</p>			



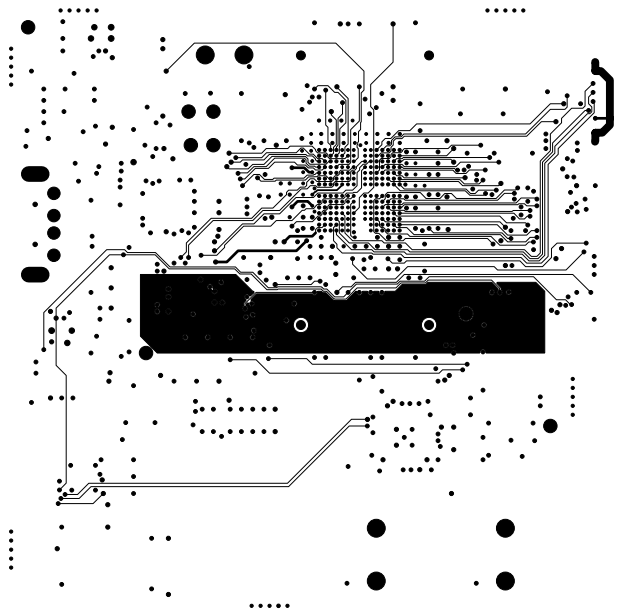
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	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778		SMS	512321 REV C
	DATE : 10/07/09			



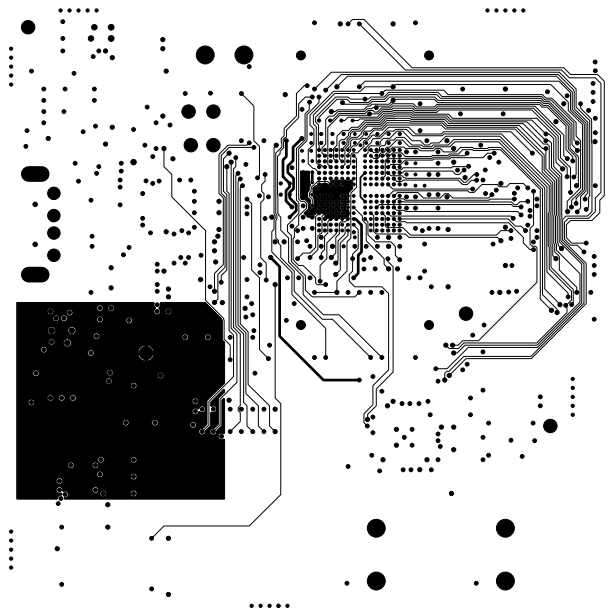
 ionDesign	TURNING CONCEPT INTO REALITY		SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778		SPS	512321 REV C
			DATE : 10/07/09	



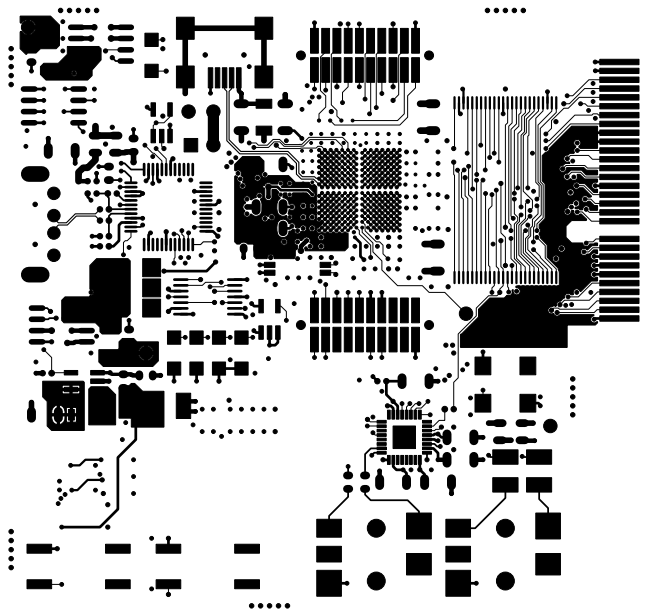
	TURNING CONCEPT INTO REALITY 4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778	SPECTRUM DIGITAL	
		LAYER 2 GROUND	512321 REV C
		DATE : 10/07/09	

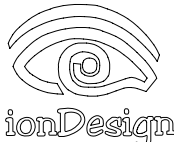


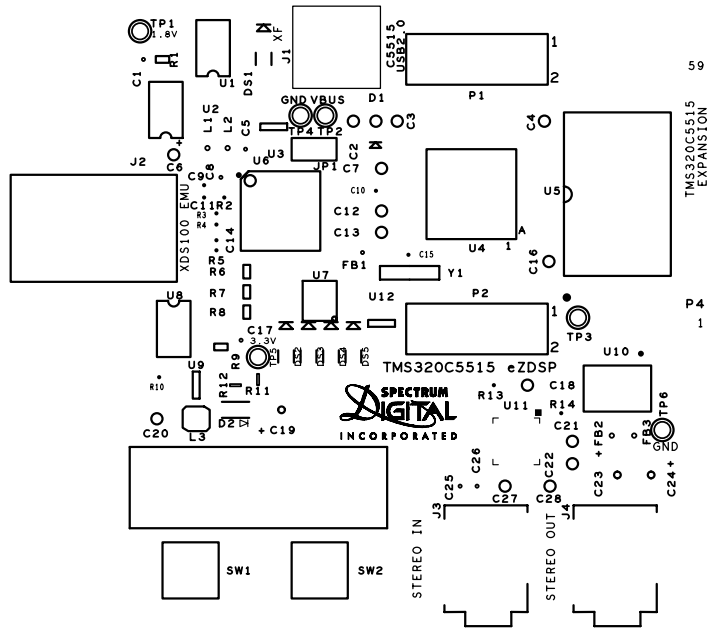
LAYER 3
SIGNAL



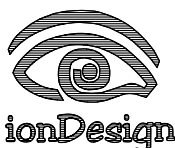
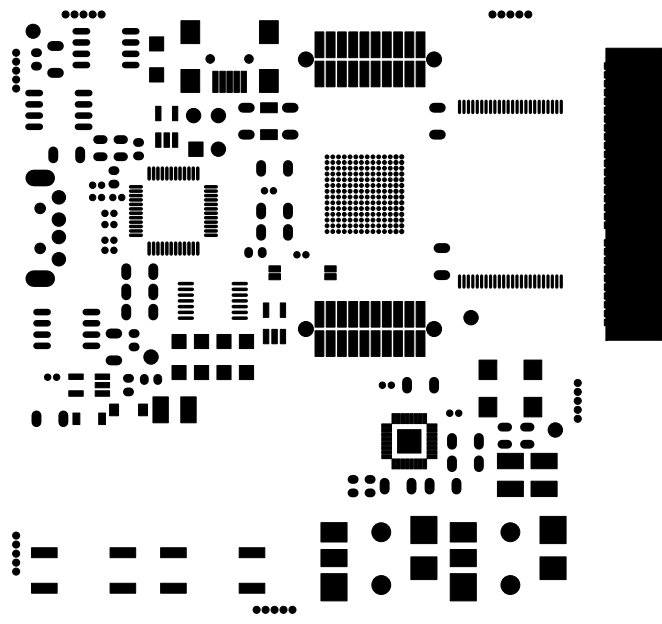
LAYER 4
SIGNAL



	TURNING CONCEPT INTO REALITY	SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778	LAYER 1 COMPONENT	512321 REV C
		DATE: 10/07/09	



	TURNING CONCEPT INTO REALITY		SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778		TSLK	512321 REV C
	DATE: 10/07/09			



TURNING CONCEPT
INTO REALITY

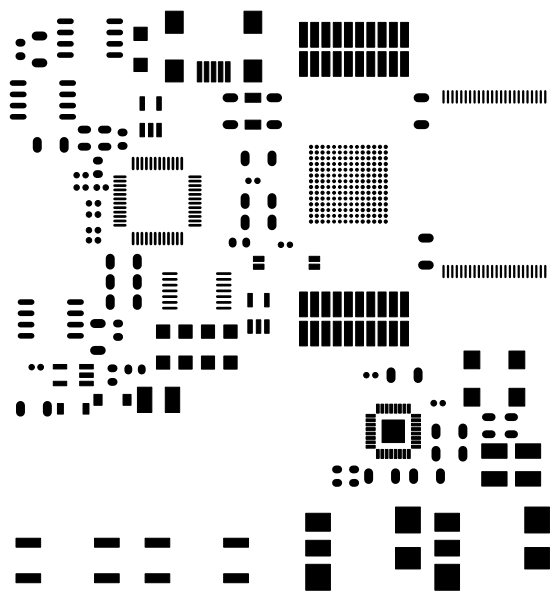
4410 SHOALWOOD
AUSTIN, TEXAS 78756
(512)260-5778

SPECTRUM DIGITAL

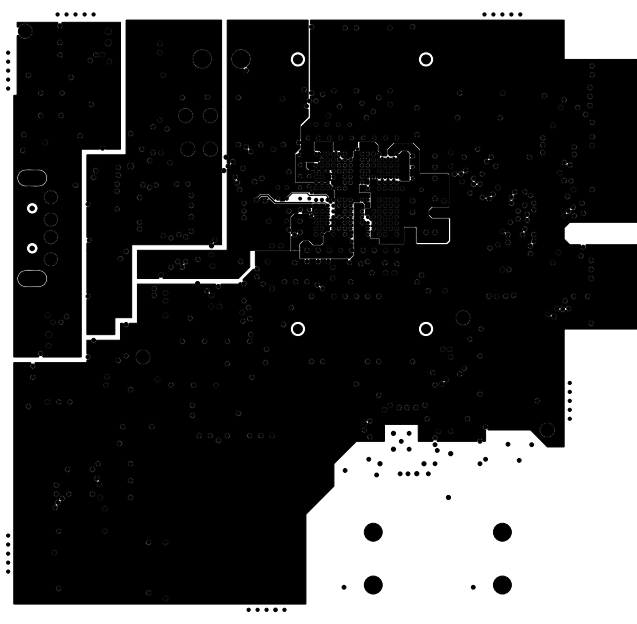
SMC


512321 REV C

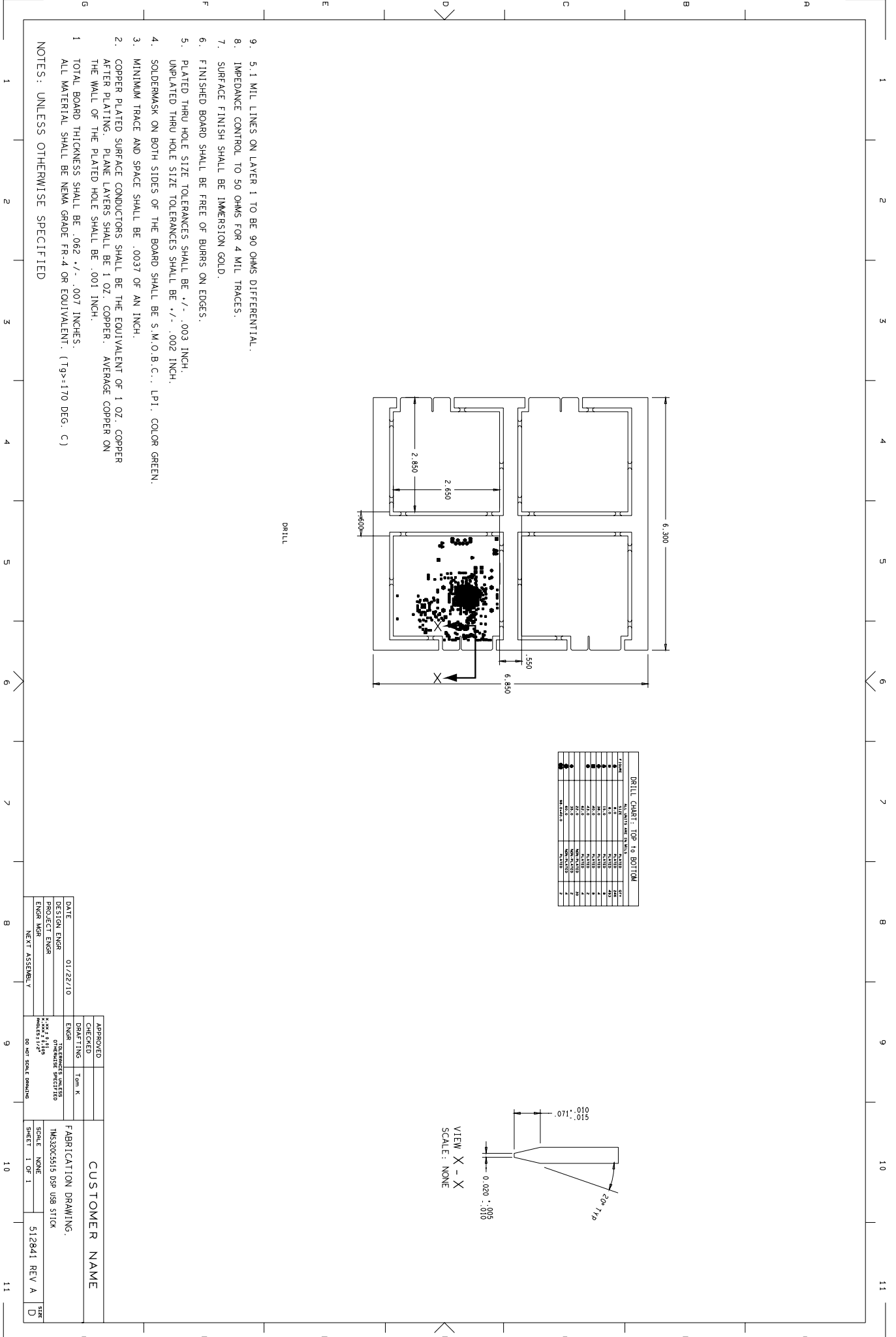
DATE : 10/07/09



 ionDesign	TURNING CONCEPT INTO REALITY		SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778		SPC	512321 REV C
	DATE : 10/07/09			

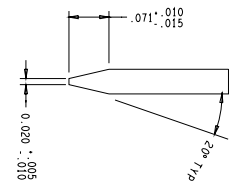


 ionDesign	TURNING CONCEPT INTO REALITY	SPECTRUM DIGITAL	
	4410 SHOALWOOD AUSTIN, TEXAS 78756 (512)260-5778	LAYER 5 POWER	512321 REV C
		DATE : 10/07/09	



DRILL CHART: TOP 1 to BOTTOM

DRILL	SIZE	DEPTH	TYPE	PLATE	FINISH
1	0.015	0.010	DRILL	0.005	0.005
2	0.020	0.010	DRILL	0.005	0.005
3	0.025	0.010	DRILL	0.005	0.005
4	0.030	0.010	DRILL	0.005	0.005
5	0.035	0.010	DRILL	0.005	0.005
6	0.040	0.010	DRILL	0.005	0.005
7	0.045	0.010	DRILL	0.005	0.005
8	0.050	0.010	DRILL	0.005	0.005
9	0.055	0.010	DRILL	0.005	0.005
10	0.060	0.010	DRILL	0.005	0.005
11	0.065	0.010	DRILL	0.005	0.005
12	0.070	0.010	DRILL	0.005	0.005
13	0.075	0.010	DRILL	0.005	0.005
14	0.080	0.010	DRILL	0.005	0.005
15	0.085	0.010	DRILL	0.005	0.005
16	0.090	0.010	DRILL	0.005	0.005
17	0.095	0.010	DRILL	0.005	0.005
18	0.100	0.010	DRILL	0.005	0.005
19	0.105	0.010	DRILL	0.005	0.005
20	0.110	0.010	DRILL	0.005	0.005
21	0.115	0.010	DRILL	0.005	0.005
22	0.120	0.010	DRILL	0.005	0.005
23	0.125	0.010	DRILL	0.005	0.005
24	0.130	0.010	DRILL	0.005	0.005
25	0.135	0.010	DRILL	0.005	0.005
26	0.140	0.010	DRILL	0.005	0.005
27	0.145	0.010	DRILL	0.005	0.005
28	0.150	0.010	DRILL	0.005	0.005
29	0.155	0.010	DRILL	0.005	0.005
30	0.160	0.010	DRILL	0.005	0.005
31	0.165	0.010	DRILL	0.005	0.005
32	0.170	0.010	DRILL	0.005	0.005
33	0.175	0.010	DRILL	0.005	0.005
34	0.180	0.010	DRILL	0.005	0.005
35	0.185	0.010	DRILL	0.005	0.005
36	0.190	0.010	DRILL	0.005	0.005
37	0.195	0.010	DRILL	0.005	0.005
38	0.200	0.010	DRILL	0.005	0.005
39	0.205	0.010	DRILL	0.005	0.005
40	0.210	0.010	DRILL	0.005	0.005
41	0.215	0.010	DRILL	0.005	0.005
42	0.220	0.010	DRILL	0.005	0.005
43	0.225	0.010	DRILL	0.005	0.005
44	0.230	0.010	DRILL	0.005	0.005
45	0.235	0.010	DRILL	0.005	0.005
46	0.240	0.010	DRILL	0.005	0.005
47	0.245	0.010	DRILL	0.005	0.005
48	0.250	0.010	DRILL	0.005	0.005
49	0.255	0.010	DRILL	0.005	0.005
50	0.260	0.010	DRILL	0.005	0.005
51	0.265	0.010	DRILL	0.005	0.005
52	0.270	0.010	DRILL	0.005	0.005
53	0.275	0.010	DRILL	0.005	0.005
54	0.280	0.010	DRILL	0.005	0.005
55	0.285	0.010	DRILL	0.005	0.005
56	0.290	0.010	DRILL	0.005	0.005
57	0.295	0.010	DRILL	0.005	0.005
58	0.300	0.010	DRILL	0.005	0.005
59	0.305	0.010	DRILL	0.005	0.005
60	0.310	0.010	DRILL	0.005	0.005
61	0.315	0.010	DRILL	0.005	0.005
62	0.320	0.010	DRILL	0.005	0.005
63	0.325	0.010	DRILL	0.005	0.005
64	0.330	0.010	DRILL	0.005	0.005
65	0.335	0.010	DRILL	0.005	0.005
66	0.340	0.010	DRILL	0.005	0.005
67	0.345	0.010	DRILL	0.005	0.005
68	0.350	0.010	DRILL	0.005	0.005
69	0.355	0.010	DRILL	0.005	0.005
70	0.360	0.010	DRILL	0.005	0.005
71	0.365	0.010	DRILL	0.005	0.005
72	0.370	0.010	DRILL	0.005	0.005
73	0.375	0.010	DRILL	0.005	0.005
74	0.380	0.010	DRILL	0.005	0.005
75	0.385	0.010	DRILL	0.005	0.005
76	0.390	0.010	DRILL	0.005	0.005
77	0.395	0.010	DRILL	0.005	0.005
78	0.400	0.010	DRILL	0.005	0.005
79	0.405	0.010	DRILL	0.005	0.005
80	0.410	0.010	DRILL	0.005	0.005
81	0.415	0.010	DRILL	0.005	0.005
82	0.420	0.010	DRILL	0.005	0.005
83	0.425	0.010	DRILL	0.005	0.005
84	0.430	0.010	DRILL	0.005	0.005
85	0.435	0.010	DRILL	0.005	0.005
86	0.440	0.010	DRILL	0.005	0.005
87	0.445	0.010	DRILL	0.005	0.005
88	0.450	0.010	DRILL	0.005	0.005
89	0.455	0.010	DRILL	0.005	0.005
90	0.460	0.010	DRILL	0.005	0.005
91	0.465	0.010	DRILL	0.005	0.005
92	0.470	0.010	DRILL	0.005	0.005
93	0.475	0.010	DRILL	0.005	0.005
94	0.480	0.010	DRILL	0.005	0.005
95	0.485	0.010	DRILL	0.005	0.005
96	0.490	0.010	DRILL	0.005	0.005
97	0.495	0.010	DRILL	0.005	0.005
98	0.500	0.010	DRILL	0.005	0.005
99	0.505	0.010	DRILL	0.005	0.005
100	0.510	0.010	DRILL	0.005	0.005



VIEW X - X
SCALE: NONE

9. 5.1 MIL LINES ON LAYER 1 TO BE 90 OHMS DIFFERENTIAL.
8. IMPEDANCE CONTROL TO 50 OHMS FOR 4 MIL TRACES.
7. SURFACE FINISH SHALL BE IMMERSION GOLD.
6. FINISHED BOARD SHALL BE FREE OF BURRS ON EDGES.
5. PLATED THRU HOLE SIZE TOLERANCES SHALL BE +/- .003 INCH. UNPLATED THRU HOLE SIZE TOLERANCES SHALL BE +/- .002 INCH.
4. SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE S.M.O.B.C.: LPT. COLOR GREEN.
3. MINIMUM TRACE AND SPACE SHALL BE .0037 OF AN INCH.
2. COPPER PLATED SURFACE CONDUCTORS SHALL BE THE EQUIVALENT OF 1 OZ. COPPER AFTER PLATING. PLANE LAYERS SHALL BE 1 OZ. COPPER. AVERAGE COPPER ON THE WALL OF THE PLATED HOLE SHALL BE .001 INCH.
1. TOTAL BOARD THICKNESS SHALL BE .062 +/- .007 INCHES. ALL MATERIAL SHALL BE NEMA GRADE FR-4 OR EQUIVALENT. (Tg>=170 DEG. C)

NOTES: UNLESS OTHERWISE SPECIFIED

DATE	01/22/10	APPROVED		CUSTOMER NAME
DESIGN ENGR		CHECKED	Tom K	FABRICATION DRAWING.
PROJECT ENGR		DRAFTING		1MS2005515 DSP USB STICK
ENGR MGR		ENGR		SCALE NONE
NEXT ASSEMBLY				SHEET 1 OF 1
				512941 REV A
				D

DO NOT SCALE DRAWING