

TOP 100

**CONTRACT
MANUFACTURERS**

TOP 100 CONTRACT

ELECTRONIC BUSINESS

Rank	Company	Total revenue 2005 (\$ million)*				# of facilities	Total employees 2005	Computers and peripherals	Finished product mix (%)						Manufacturing capabilities					
		Public = P, Private = PR	North America	Offshore					Communications	Industrial	Medical	Military	Consumer	Other	New product design	Board layout design	Box/full-system build	Distribution and repair	Cable/harness assembly	
1	HON HAI PRECISION (TAIWAN) ³	27,751.4	P	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	FLEXTRONICS (SINGAPORE) ⁴	15,297.0	P	N/A	N/A	90,000	22%	23%	12%	0%	0%	10%	7%	X	X	X	X	X	X	X
3	SANMINA-SCI (SAN JOSE, CA) ⁴	11,734.7	P	24	42	48,000	47%	27%	6%	7%	8%	5%	0%	X	X	X	X	X	X	X
4	SOLECTRON (MILPITAS, CA) ⁴	10,400.0	P	20	33	55,000	32%	43%	9%	0%	0%	12%	4%	X	X	X	X	X		
5	CELESTICA (CANADA)	8,471.0	P	14	25	46,000	27%	49%	11%	0%	0%	13%	0%	X	X	X	X	X		
6	JABIL (ST. PETERSBURG, FL) ^{4,5}	7,524.0	P	11	35	55,000	20%	24%	0%	16%	0%	36%	4%	X	X	X	X	X	X	X
7	INVENTEC (TAIWAN) ³	6,048.7	P	3	6	11,885	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	BENQ (TAIWAN) ³	5,389.6	P	0	7	19,765	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	ELCOTEQ (FINLAND) ²	4,938.0	P	3	21	19,802	0%	100%	0%	0%	0%	0%	0%	X	X	X	X	X		
10	WISTRON (TAIWAN)	4,700.0	P	2	8	22,354	90%	10%	0%	0%	0%	0%	0%	X	X	X	X	X		
11	BENCHMARK ELECTRONICS (ANGLETON, TX) ²	2,257.2	P	11	6	8,972	59%	11%	17%	13%	0%	0%	0%	X	X	X	X	X		
12	VENTURE CORPORATION (SINGAPORE)	2,040.0	P	3	18	14,000	31%	23%	0%	16%	0%	0%	30%	X	X	X	X	X		
13	UNIVERSAL SCIENTIFIC INDUSTRIAL (TAIWAN)	1,609.9	P	1	5	10,258	56%	11%	17%	0%	0%	16%	0%		X	X	X	X	X	X
14	CAL-COMP ELECTRONICS (THAILAND) ³	1,429.6	P	0	9	10,987	62%	34%	0%	0%	0%	1%	3%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	PLEXUS (NEENAH, WI) ⁴	1,228.9	P	9	6	7,476	0%	48%	20%	26%	6%	0%	0%	X	X	X	X	X		
16	JURONG TECHNOLOGIES (SINGAPORE) ³	1,158.0	P	0	6	4,545	50%	48%	0%	0%	0%	0%	2%		X	X	X			
17	VIASYSTEMS GROUP (ST. LOUIS, MO) ^{1,2}	1,100.0	PR	7	5	25,000	15%	19%	11%	0%	0%	55%	0%		X	X	X	X	X	X
18	SIIX (JAPAN) ²	954.5	P	0	13	4,936	18%	31%	25%	0%	0%	0%	26%		X	X	X	X		
19	PEMSTAR (ROCHESTER, MN) ⁴	820.3	P	4	7	3,346	23%	44%	30%	2%	1%	0%	0%	X	X	X	X	X	X	X
20	NAM TAI ELECTRONICS (HONG KONG) ²	797.2	P	0	2	6,818	0%	70%	0%	0%	0%	30%	0%	X	X	X	X			
21	ALCO ELECTRONICS (HONG KONG) ⁴	673.0	P	6	11	16,900	7%	5%	0%	0%	0%	88%	0%	X	X	X	X	X	X	X
22	GES INTERNATIONAL (SINGAPORE) ⁴	624.3	P	2	3	1,842	8%	8%	21%	13%	0%	2%	48%	X	X	X	X	X		
23	BEYONICS (SINGAPORE) ^{3,4}	617.8	P	0	8	8,668	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	ELITE INDUSTRIAL GROUP (HONG KONG) ^{1,2,4}	585.0	PR	2	10	10,000	10%	10%	20%	10%	0%	50%	0%	X	X	X	X	X	X	X
25	ZOLLNER ELEKTRONIK (GERMANY) ³	500.0	PR	0	12	5,651	21%	9%	37%	6%	0%	26%	1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	ORIENT SEMICONDUCTOR ELECTRONICS (TAIWAN)	491.5	P	1	3	3,734	30%	14%	20%	0%	0%	36%	0%		X	X	X	X	X	X
27	AEROFLEX (COLORADO SPRINGS, CO) ^{2,4}	463.4	P	11	4	2,640	5%	5%	0%	15%	50%	15%	10		X	X				
28	3CEMS (CHINA)	438.0	PR	0	6	10,640	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	KIMBALL ELECTRONICS GROUP (JASPER, IN) ⁴	435.0	P	4	5	2,715	1%	3%	16%	4%	0%	0%	76%	X	X	X	X	X	X	X
30	M-FLEX (ANAHEIM, CA) ⁴	412.4	P	2	2	10,046	6%	85%	8%	1%	0%	0%	0%		X	X				
31	SCANFIL (FINLAND)	381.0	P	0	9	2,302	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	CTS (MOORPARK, CA) ⁴	364.0	P	4	4	N/A	49%	24%	14%	8%	0%	0%	5%		X	X	X	X	X	X
33	WKK TECHNOLOGY (HONG KONG)	362.0	P	1	1	4,513	30%	38%	24%	0.1%	0%	5.7%	2.2%	X	X	X	X			
34	INTEGRATED MICROELECTRONICS (PHILIPPINES)	357.0	PR	1	10	19,670	45%	14%	13%	1%	0%	28%	0%	X	X	X	X	X		
35	WONG'S ELECTRONICS (HONG KONG)	352.0	P	0	2	5,600	0%	19%	17%	0%	0%	14%	50%	X	X	X	X	X		
36	VIDEOTON (HUNGARY)	330.0	PR	0	10	6,900	16%	3%	11%	1%	1%	33%	35%			X	X	X	X	X
37	SUNTRON (PHOENIX, AZ)	328.7	P	9	0	1,500	0%	15%	29%	4%	30%	0%	22%		X	X	X	X	X	X
38	SURFACE MOUNT TECHNOLOGY (HONG KONG) ²	326.2	P	0	3	11,581	35%	4%	25%	0%	0%	30%	6%			X	X		X	
39	HANA MICROELECTRONICS (THAILAND)	302.0	P	1	5	8,000	20%	20%	10%	10%	0%	20%	20%			X	X			
40	FLASH ELECTRONICS (FREMONT, CA) ⁴	299.6	PR	4	4	1,700	15%	65%	10%	0%	0%	10%	0%			X	X	X		
41	FABRINET (SAN FRANCISCO, CA) ⁴	282.1	PR	0	2	5,000	0%	95%	0%	0%	0%	5%	0%			X	X	X	X	X
42	ENICS (SWITZERLAND) ³	255.8	PR	0	8	1,900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	X	X	X	X
43	PARTNERTECH (SWEDEN) ³	253.0	P	1	9	1,431	0%	58%	0%	16%	0%	0%	26%	X	X	X	X	X	X	X
44	NEWAYS ELECTRONICS (NETHERLANDS)	249.5	P	0	14	1,742	0%	2%	57%	28%	1%	5%	7%	X	X	X	X	X	X	X
45	SIMCLAR GROUP (SCOTLAND)	245.0	PR	8	5	1,738	20%	24%	24%	3%	5%	7%	17%	X	X	X	X	X	X	X
46	COMPUTIME (HONG KONG) ⁴	235.0	PR	0	3	N/A	0%	5%	50%	20%	0%	25%	0%	X	X	X	X	X		
47	MC ASSEMBLY (MELBOURNE, FL)	234.0	PR	2	0	1,455	14%	12%	36%	10%	0%	1%	27%		X	X	X	X		
48	KITRON (NORWAY) ³	232.5	P	0	7	1,282	0%	27%	23%	22%	28%	0%	0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A
49	VOGT ELECTRONICS (GERMANY) ⁴	231.6	P	0	4	248	0%	6%	35%	0%	0%	59%	0%		X	X	X			
50	SMTC (CANADA)	228.8	P	4	2	1,350	34%	18%	48%	0%	0%	0%	0%		X	X	X	X	X	X

SOURCE: REED RESEARCH GROUP

¹ Revenue figures are Reed Research estimates.

² All information except revenue and employee figures are based on 2004 data.

³ No data was provided by the company. All information and figures are Reed Research estimates.

⁴ Revenue is given for fiscal year end other than 12/31

MANUFACTURERS

	Certification			Procurement (% of business)			Board assembly Current business (% total boards)			Board assembly technologies										Cleaning			Test		
	ISO 9001	ISO 9002	Turnkey	Consignment	All-surface mount	Surface mount/ through-hole mix	Through hole	BGA	TAB	MCM	Bare-die mount	Bare-wire bond	PCMCIA	Flex	Bare-board	Backplanes	Mill-spec	Aqueous/ semi-aqueous	No-clean	Alt. solvent	In-circuit	Functional	Environmental/ESS	X-ray	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X	X	N/A	N/A	N/A	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	X	X	N/A	N/A	N/A	N/A	N/A				X	X	X	X	X	X	X		X	X		X			
	X		N/A	N/A	25%	70%	5%	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	
	X	X	95%	5%	5%	94%	1%	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	
	X	X	100%	0%	20%	70%	10%	X		X		X		X	X	X	X	X		X	X	X	X	X	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X	X	98%	2%	95%	5%	0%	X	X			X	X				X	X		X	X	X	X	X	
	X	X	N/A	N/A	62%	38%	0%	X	X	X		X			X	X		X		X	X	X	X	X	
	X	X	99%	1%	10%	87%	3%	X		X	X	X	X		X		X	X		X	X	X	X	X	
	X		N/A	N/A	N/A	N/A	N/A	X			X	X		X		X	X	X		X	X	X	X	X	
	X		85%	15%	50%	50%	0%	X	X	X		X	X	X	X				X	X	X	X	X	X	
		X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X		N/A	N/A	N/A	N/A	N/A	X		X	X	X	X	X	X		X		X	X	X	X	X	X	
	X		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	X
		X	90%	10%	10%	80%	10%	X		X			X		X		X	X		X	X	X	X	X	
	X		90%	10%	75%	22%	3%	X			X	X	X				X	X	X	X	X		X	X	
	X	X	99%	1%	90%	10%	0%	X		X	X	X	X	X		X	X		X	X	X	X	X	X	
	X		100%	0%	99%	1%	0%	X	X	X	X	X		X			X	X		X	X	X	X	X	
	X	X	85%	15%	53%	38%	9%	X	X	X	X	X	X	X	X		X			X	X	X	X	X	
	X	X	100%	0%	80%	15%	5%	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X	X	95%	5%	50%	45%	5%	X			X		X				X	X		X	X	X	X	X	
	X		N/A	N/A	N/A	N/A	N/A	X					X				N/A	N/A	N/A	X	X	X	X	X	
		X	55%	45%	10%	90%	0%	X		X		X	X	X		X		X		X	X	X	X	X	
	X		95%	5%	25%	60%	15%	X		X		X				X	X			X	X		X	X	
	X	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X	X	95%	5%	5%	90%	5%	X			X	X	X				X	X		X	X	X	X	X	
	X		95%	5%	95%	4%	1%	X			X	X		X			X	X		X	X	X	X	X	
	X		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X	X	100%	0%	N/A	N/A	N/A	X			X	X			X	X	X	X	X	X	X	X	X	X	
	X		95%	5%	30%	67%	3%	X		X	X		X		X			X		X	X	X	X	X	
	X	X	60%	40%	73.5%	26.5%	0%	X			X	X	X	X		X	X	X		X	X	X	X	X	
	X	X	90%	10%	40%	60%	0%	X				X	X							X	X	X	X	X	
	X		45%	55%	5%	85%	10%	X				X			X	X	X	X		X	X		X	X	
	X	X	95%	5%	15%	60%	25%	X		X		X	X		X	X	X	X	X	X	X	X	X	X	
		X	80%	20%	N/A	N/A	N/A	X		X	X	X		X				X		X	X	X	X	X	
		X	80%	20%	90%	10%	0%			X	X	X	X	X			X	X		X	X		X	X	
		X	98%	2%	0%	100%	0%	X				X	X				X	X	X	X	X	X	X	X	
		X	100%	0%	95%	5%	0%	X		X	X	X	X			X	X	X		X	X	X	X	X	
	X		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X			
	X		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X		X	
	X		30%	70%	1%	69%	30%	X			X	X		X		X	X	X		X	X		X	X	
	X		99%	1%	20%	60%	20%	X				X	X		X	X	X	X		X	X	X	X	X	
	X	X	99%	1%	65%	30%	5%	X		X	X	X		X				X		X	X	X	X	X	
	X		99%	1%	20%	72%	8%	X				X					X	X		X	X		X	X	
	X	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X		90%	10%	75%	20%	5%	X			X		X		X		X		X	X	X	X	X	X	
	X		98%	2%	15%	80%	5%	X			X	X	X	X		X	X	X	X	X	X	X	X	X	

* Calendar figures were used where available. Calendar year data is for the four quarters ending closest to Dec.31, 2005.
 ** Design for Manufacturability
 N/A=Not Available
 ODM s and ODM revenues are not included.

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ELECTRONIC BUSINESS

Rank	Company	Total revenue 2005 (\$ million)*		Public = P, Private = PR	# of facilities	Total employees 2005	Finished product mix (%)							Manufacturing capabilities			
		North America	Offshore				Computers and peripherals	Communications	Industrial	Medical	Military	Consumer	Other	New product design	Board layout design	Box/full-system build	Distribution and repair
51	SINBON ELECTRONICS (TAIWAN) ^{1,2}	227.1	P	0	5	2,655	60%	34%	3%	2%	0%	1%	0%	X	X	X	X
52	BRECONRIDGE (CANADA) ³	220.3	PR	2	3	2,000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	X
53	MID-SOUTH INDUSTRIES (GADSDEN, AL)	210.0	PR	8	0	1,500	10%	35%	5%	0%	0%	45%	5%	X	X	X	X
54	COB TECHNOLOGIES (SINGAPORE) ³	208.5	PR	2	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		X	X	X
55	TOPSCOM (CHINA) ³	203.7	PR	0	2	3,800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56	KEYTRONIC EMS (SPOKANE, WA) ⁴	202.9	P	1	5	2,847	20%	25%	5%	5%	0%	35%	10%	X	X	X	X
57	EPIC TECHNOLOGIES (ROCHESTER HILLS, MI)	195.0	PR	5		3,300	0%	0%	30%	45%	0%	25%	0%	X	X	X	X
58	DRS LAUREL TECHNOLOGIES (JOHNSTOWN, PA) ⁴	190.0	P	3	0	846	0%	0%	0%	0%	98%	0%	2%	X	X	X	X
59	NOTE (SWEDEN) ³	189.0	P	0	3	1,097	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	SATURN ELECTRONICS & ENGINEERING (AUBURN HILLS, MI)	189.0	PR	6	3	1,890	0%	0%	5%	0%	0%	95%	0%	X	X	X	X
61	DDI (ANAHEIM, CA) ³	184.6	P	6	0	1,200	22%	43%	0%	21%	6%	0%	8%	N/A	N/A	N/A	N/A
62	LABARGE (ST. LOUIS, MO) ⁴	177.7	P	6	0	1,087	0%	2%	17%	2%	41%	0%	38%	X	X	X	X
63	CREATION TECHNOLOGIES (CANADA)	174.0	PR	7	0	1,000	1%	40%	34%	11%	2%	5%	7%		X	X	X
64	SPARTON (JACKSON, MI) ⁴	167.2	P	6	1	1,100	0%	0%	41%	8%	23%	0%	28%	X	X	X	X
65	SYPRIS ELECTRONICS (TAMPA, FL) ¹	163.2	P	1	0	N/A	0%	0%	5%	0%	95%	0%	0%		X	X	X
66	PHOENIX INTERNATIONAL (FARGO, ND) ⁴	153.0	P	2	0	560	0%	0%	10%	0%	0%	0%	90%	X	X	X	X
67	VTECH COMMUNICATIONS (HONG KONG) ⁴	148.0	P	0	2	2,800	1%	9%	40%	4%	0%	46%	0%	X	X	X	X
68	REPTRON ELECTRONICS (TAMPA, FL)	138.0	P	4	0	956	0%	17%	41%	42%	0%	0%	0%	X	X	X	X
69	MACK TECHNOLOGIES (WESTFORD, MA) ⁴	137.0	PR	3	0	700	5%	20%	25%	15%	25%	10%	0%		X	X	X
70	DESWELL INDUSTRIES (HONG KONG) ³	125.6	P	N/A	N/A	5,100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
71	ACT ELECTRONICS (HUDSON, MA) ⁴	120.0	PR	4	1	349	20%	30%	25%	10%	0%	15%	0%		X	X	X
72	SIGMATRON INTERNATIONAL (ELK GROVE VILLAGE, IL) ⁴	106.0	P	4	2	1,800	0%	16%	15%	0%	0%	6%	63%		X	X	X
73	HITACHI COMPUTER PRODUCTS (NORMAN, OK) ⁴	105.0	PR	1	0	320	90%	5%	5%	0%	0%	0%	0%	X	X	X	X
74	TT EMS (UNITED KINGDOM) ²	103.8	P	0	5	550	0%	54%	13%	0%	10%	23%	0%		X	X	X
75	COFIDUR (FRANCE)	97.1	PR	0	6	900	0%	30%	30%	8%	6%	0%	26%		X	X	X
76	GUL TECHNOLOGIES (SINGAPORE) ³	94.4	P	0	2	2,478	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
77	VICTRON (FREMONT, CA)	85.0	PR	1	0	335	0%	30%	30%	20%	0%	20%	0%	X	X	X	X
78	NORTECH SYSTEMS (WAYZATA, MN)	84.2	P	5	1	1,016	0%	0%	47%	21%	24%	0%	8%		X	X	X
79	NU VISIONS MANUFACTURING (SPRINGFIELD, MA) ⁴	83.0	PR	2	0	240	0%	0%	15%	25%	60%	0%	0%	X	X	X	X
80	BULOVA TECHNOLOGIES (LANCASTER, PA)	77.0	PR	2	0	494	1%	32%	12%	4%	23%	4%	24%		X	X	X
81	THE MOREY CORPORATION (WOODRIDGE, IL)	76.4	PR	1	0	475	0%	15%	65%	0%	5%	0%	15%	X	X	X	X
82	MICRO DYNAMICS (EDEN PRAIRIE, MN)	72.0	PR	4	0	525	14%	14%	29%	16%	0%	0%	27%	X	X	X	X
83	MICROTEK (TAIWAN) ²	71.9	P	1	3	N/A	100%	0%	0%	0%	0%	0%	0%	X	X	X	
84	SMS TECHNOLOGIES (SAN DIEGO, CA)	69.5	PR	3	0	475	7%	15%	25%	12%	13%	25%	3%		X	X	X
85	TRIVIRIX (MILACA, MN) ^{1,2}	69.0	PR	3	2	234	0%	0%	0%	100%	0%	0%	0%		X	X	
86	COLUMBIA TECH (WORCESTER, MA)	60.0	PR	1	0	250	10%	20%	30%	10%	10%	10%	10%	X	X	X	X
87	INNOVA ELECTRONICS (HOUSTON, TX)	59.7	PR	2	0	340	5%	0%	0%	3%	3%	3%	86%		X	X	X
88	HEI (VICTORIA, MN) ^{2,4}	56.6	P	4	0	454	0%	15%	5%	80%	0%	0%	0%	X	X	X	X
89	RAVEN INDUSTRIES (SIOUX FALLS, SD) ⁴	56.2	P	3	0	275	0%	0%	43%	3%	52%	0%	0%	X	X	X	X
90	APSCO (PERRY, OH)	54.4	PR	1	0	350	0%	25%	45%	10%	5%	0%	15%		X	X	X
91	RIVERSIDE ELECTRONICS (LEWISTON, MN)	54.0	PR	2	0	320	11%	0%	35%	24%	0%	10%	20%		X	X	X
92	EIT (STERLING, VA)	53.9	PR	4	0	248	0%	35%	30%	35%	0%	0%	0%	X	X	X	X
93	CIRCUIT SERVICE (WHEELING, IL) ⁴	48.5	PR	1	1	N/A	0%	20%	75%	5%	0%	0%	0%		X	X	X
94	INTRICON (ARDEN HILLS, MN) ²	44.5	P	3	2	426	0%	20%	0%	80%	0%	0%	0%	X	X	X	X
95	EXPRESS MANUFACTURING (SANTA ANA, CA)	42.0	PR	4	2	520	25%	25%	20%	2%	1%	20%	7%	X	X	X	X
96	COMPUTROL (MERIDIAN, ID)	38.9	PR	2	0	179	0%	40%	30%	20%	10%	0%	0%		X	X	X
97	SENIOR SYSTEMS TECHNOLOGY (PALMDALE, CA) ^{1,2}	35.0	PR	1	0	175	4%	5%	13%	16%	40%	10%	12%		X	X	X
98	EI MICROCIRCUITS (MANKATO, MN)	34.0	PR	2	0	190	5%	5%	30%	55%	0%	5%	0%	X	X	X	X
99	TOTAL ELECTRONICS (LOGANSPOUT, IN)	34.0	PR	1	1	220	20%	20%	30%	0%	0%	0%	30%	X	X	X	X
100	APPLIED TECHNICAL SERVICES (BOTHELL, WA) ²	33.0	PR	2	0	185	15%	0%	30%	15%	30%	0%	10%	X	X	X	X

SOURCE: REED RESEARCH GROUP

¹ Revenue figures are Reed Research estimates.

² All information except revenue and employee figures are based on 2004 data.

³ No data was provided by the company. All information and figures are Reed Research estimates.

⁴ Revenue is given for fiscal year end other than 12/31

MANUFACTURERS

	Certification				Procurement (% of business)			Board assembly Current business (% total boards)							Board assembly technologies							Cleaning			Test	
	ISO 9001	ISO 9002	Turnkey	Consignment	All-Surface mount	Surface mount/ through-hole mix	Through hole	BGA	TAB	MCM	Bare-die wire bond	Bare-die direct	PC/MC/A	Flex	Bare-board	Backplanes	Mil-spec	Aqueous/ semi-aqueous	No-clean	Alt. solvent	In-circuit	Functional	Environmental/ESS	X-ray		
	X	X	80%	20%	70%	30%	0%	X	X	X		X	X		X			X		X	X	X	X			
			N/A	N/A	N/A	N/A	N/A	X		X		X					N/A	N/A	N/A	X	X	X	X	X		
	X	X	90%	10%	60%	30%	10%			X		X	X		X	X		X		X	X	X				
		X	N/A	N/A	N/A	N/A	N/A	X			X	X		X			X			X	X					
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		X	95%	5%	40%	55%	5%	X		X			X	X		X	X		X	X	X	X	X	X		
		X	90%	10%	30%	50%	20%	X					X				X	X	X	X	X	X	X	X		
	X		98%	2%	20%	47%	33%	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			95%	5%	0%	99%	1%	X		X	X	X		X			X	X		X	X	X	X	X		
	X		N/A	N/A	N/A	N/A	N/A	X					X		X	X	X	X			X	X	X	X		
	X		100%	0%	0%	60%	40%	X		X				X		X	X		X	X	X	X	X	X		
		X	98%	2%	75%	20%	5%	X					X	X		X	X			X	X	X	X	X		
	X	X	100%	0%	10%	60%	30%	X		X	X		X	X		X	X	X		X	X	X	X	X		
	X		90%	10%	50%	20%	30%	X		X			X	X		X	X	X	X	X	X	X	X	X		
	X		100%	0%	4%	95%	1%	X					X				X	X		X	X	X	X	X		
	X		95%	5%	5%	90%	5%	X			X			X				X			X	X	X	X		
	X		100%	0%	30%	60%	10%	X		X	X	X	X	X		X	X			X	X	X	X	X		
	X		98%	2%	20%	75%	5%	X		X					X	X	X	X		X	X	X	X	X		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X		99%	1%	55%	40%	5%	X					X				X	X		X	X	X	X	X		
		X	95%	5%	20%	50%	30%	X									X	X		X	X		X	X		
	X		98%	2%	80%	20%	0%	X										X		X	X		X	X		
	X	X	100%	0%	80%	20%	0%	X					X	X	X	X	X	X		X	X	X	X	X		
	X	X	80%	20%	20%	80%	0%	X						X	X	X		X	X	X	X		X	X		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	X		95%	5%	35%	50%	15%	X		X			X	X		X	X	X	X	X	X	X	X	X		
	X		98%	2%	5%	80%	15%	X					X			X	X	X		X	X	X				
	X		99%	1%	5%	80%	15%	X					X	X		X	X	X		X	X	X	X	X		
	X		90%	10%	15%	70%	15%	X					X		X	X	X	X		X	X	X	X	X		
	X		99%	1%	10%	80%	10%	X					X			X		X		X	X	X	X	X		
	X		90%	10%	20%	60%	20%	X					X	X		X	X	X	X	X	X		X	X		
	X	X	N/A	N/A	N/A	N/A	N/A										N/A	N/A	N/A		X					
		X	97%	3%	15%	84%	1%	X					X	X	X		X	X		X	X	X	X	X		
	X	X	95%	5%	0%	100%	0%	X					X					X		X	X	X	X	X		
	X		98%	2%	25%	50%	25%	X									X	X		X	X	X	X	X		
	X		95%	5%	0%	90%	10%	X					X		X		X	X	X	X	X	X	X	X		
	X		90%	10%	80%	0%	20%	X		X	X	X		X	X		X	X	X	X	X	X	X	X		
	X		100%	0%	14%	80%	6%	X					X			X	X	X		X	X	X	X	X		
		X	99.9%	0.1%	5%	60%	35%	X					X		X		X	X		X	X	X	X	X		
		X	95%	5%	10%	60%	30%	X					X				X	X		X	X	X	X	X		
	X		95%	5%	25%	50%	25%	X					X		X		X	X		X	X	X	X	X		
	X		98%	2%	10%	70%	20%	X					X				X			X	X		X	X		
	X		80%	20%	80%	20%	0%	X		X	X	X		X	X		X			X	X	X				
	X		70%	30%	10%	85%	5%	X					X	X		X	X		X	X	X	X	X	X		
	X		95%	5%	5%	90%	5%	X					X		X	X	X	X		X	X		X	X		
	X		80%	20%	70%	0%	30%	X		X		X	X	X		X	X		X	X	X	X	X	X		
	X		99%	1%	15%	80%	5%	X			X		X	X	X		X	X		X	X		X	X		
	X		95%	5%	20%	75%	5%	X		X			X		X		X	X		X	X					
	X	X	95%	5%	50%	40%	10%	X	X	X	X	X		X	X	X	X	X		X	X		X	X		

*Calendar figures were used where available. Calendar year data is for the four quarters ending closest to Dec.31, 2005.
 Design for Manufacturability
 N/A=Not Available
 ODM s and ODM revenues are not included.