



World Class PCB Solutions

HUADING GROUP CO LTD

Corporate

- 01** Company Profile
- 02** Key Milestone
- 03** Corporation Organization
- 04** Certificates
- 05** Global Operations
- 06** Manufacturing Sites Overview
- 07** Corporate Business Update

Company Profile

Found:	March, 2003
Registered:	HK\$100, 000, 000, 00=US\$13, 000, 000, 00
Operation:	P. R. CHINA
Production Capacity:	200, 000M2/Month
Employees:	4600
2020 Revenues	US\$176 Million

Key Milestones

1976	Single-sided PCB Factory Started Full Production
1982	Double-sided PCB Factory Started Full Production
1988	Multilayer PCB Factory Started Full Production
1900	A Member of CPCA=China Printed Circuit Association Since CPCA Establishment in June,1990. Plant started Building Automative PCB
2000	Director of China Printed Circuit Association
2003	Flex PCB Factory Started Full Production,Including Rigid Flex PCB Plant Started Building HDI Huading Group Established
2006	Metal-cored(Aluminium-cored)PCB Factory Started Full Production,Plant started Anvlaver Production
2007	Become An IPC member
2012	Executive Director of China Printed Circuit Association Among 671 Officially Registered Member In P. R. China
2014	Ranked #88 Among The World Top PCB Manufactures
2015	Ranked #82 Among The World Top PCB Manufactures
2016	Ranked #83 Among The World Top PCB Manufactures
2017	Ranked #89 Among The World Top PCB Manufactures
2018	Ranked #96 Among The World Top PCB Manufactures
2019	Ranked #87 Among The World Top PCB Manufactures
2021	Huading-inversted PCB Factory Is About To Be Listed On The U S A Stock Market

NTI-100 2019 World Top PCB Makers (unit: US\$ million)/ 2018 data adjusted with 2019 Exchange Rates

Rank	Maker	Country	2018	2019	Growth	Brief Explanation
1	ZD Tech*	Taiwan	3,831	3,887	1.46%	Expanding a buying Boardtek (Oct 2020)
2	TTM Technologies	USA	2,847	2,689	-5.55%	Sold Mobility related business to AKMMeadville
3	Unimicron	Taiwan	2,450	2,668	8.90%	IC substrate expansion \$800?
4	Nippon Mektron	Japan	2,700	2,597	-3.81%	Heavy dependence on smartphone hurts
5	Mflex (Dongshan Prec)	China	1,652	2,115	28.02%	Mflex+Multek (Multek is expanding)
6	Compeq	Taiwan	1,634	1,816	11.14%	No. 2 plant in Chingqing will be operational at year end
7	Tripod	Taiwan	1,685	1,760	4.45%	Xiantao plant expanding
8	Shennan Circuit	China	1,129	1,523	34.90%	New IC substrate plants in Wuxi
9	HannStar	Taiwan	1,399	1,395	-0.29%	HannStar Board GMB+Elan
10	Samsung E-M	S. Korea	1,273	1,386	8.88%	Shut down Kunshan HDI plant
11	KBC PCB Group	China	1,250	1,234	-1.28%	Several makers under the wing such as Elek & Eltec
12	Ibiden	Japan	1,064	1,213	14.00%	\$1.2 billion IC substrate expansion (2020-2021)
13	Wus Group	Taiwan	971	1,193	22.86%	Is it a Taiwan maker or Chinese maker? Maybe Chinese
14	Young Poong Group	S. Korea	1,273	1,149	-9.74%	Interflex is recovering
15	AT&S	Austria	1,150	1,119	-2.70%	\$1.3 billion investment in 5 years
16	Meiko	Japan	1,091	1,060	-2.84%	Trying to expand market horizon
17	Nanya PCB	Taiwan	932	1,005	7.83%	IC substrate for high-end servers doing well
18	Fujikura	Japan	1,120	956	-14.64%	More than 90% revenue comes from overseas
19	Daeduck Group	S. Korea	836	920	10.05%	Strong in IC substrate and high-end MLB
20	Kinwong	China	709	914	28.91%	New plant in Zhuhai
21	Simmtech	S. Korea	864	858	-0.69%	Includes Eastern in Japan and Xian plant
22	Flexium*	Taiwan	866	843	-2.66%	Apple, Apple, Apple
23	CMK	Japan	828	758	-8.45%	Heavy dependence in automotive
24	Shinko Denki	Japan	690	748	8.40%	High-end IC substrates like Ibiden
25	Unitech	Taiwan	632	725	14.72%	50%+ comes from Rigid-Flex PCB
26	Kinsus	Taiwan	767	722	-5.87%	IC substrate, contact lens
27	T.P.T.	Taiwan	746	702	-5.90%	PC Motherboard and LCD driver circuits
28	Sumitomo Denko	Japan	831	671	-19.25%	What went wrong?
29	LG Innotek	S. Korea	661	616	-6.80%	Shutting down HDI & regular PCB plants
30	Gold Circuit	Taiwan	666	615	-7.66%	Currently, string with PC motherboards and tablets
31	Chin Poon	Taiwan	653	578	-11.48%	Automotive dependence is hurting

32	BH Flex	S. Korea	659	562	-14.72%	Three plants in Vietnam (north of Hanoi)
33	Victory Giant	China	477	561	17.61%	HDI plant added
34	Career*	Taiwan	502	551	9.76%	24% of the share is now owned by HannStar Board
35	Shenzhen Fast Print	China	501	549	9.58%	China, USA and UK
36	Shenzhen Suntak	China	527	515	-2.28%	New Plant in Zhuhai
37	Kyocera PCB	Japan	550	500	-9.09%	A bit of guess
38	SI Flex	S. Korea	472	462	-2.12%	Only in Vietnam, S. Korean plants are shut down
39	Murata	Japan	505	450	-10.00%	MetroCirc, LCP based multilayerflex boards
40	DG Shengyi Electronics	China	294	447	52.00%	A new plant in Ji'An and a new plant in Dongguang (HDI)
41	Dynamic	Taiwan	421	443	5.26%	Taiwan plant was shut down
42	Isu-Petasys	S. Korea	481	439	-8.73%	Two groups and a US plant
43	Founder Tech	China	353	438	24.01%	Including ACCESS (nw plant in Nantong)
44	Ellington	China	480	434	-9.58%	Automotive and motherboards
45	Nitto Denko	Japan	373	397	6.43%	HDD suspension specialist
46	Bomin	China	281	385	37.01%	
47	Kyoden	Japan	405	377	-6.22%	Japan and Thailand (collaboration with APEX)
48	KCE Electronics	Thailand	419	374	-10.74%	Heavy dependence on automotive, trying to diversify
4	Wuzhu	China	368	357	-2.99%	Shenzhen, Meizhou, Dongguang & Gangzhou (new)
50	Xiamen Hongxin	China	325	355	9.23%	FPC specialist
51	Olympic	China	306	343	12.09%	Smart factory expanding
52	Hitachi Chemical	Japan	384	337	-12.24%	Bought by Showa Denko and removed Tokyo Exchange
53	APEX	Taiwan	361	336	-6.93%	Thailand APEX 2 expanding with a new plant
54	CCTC	China	356	334	-6.18%	Not much expansion
55	Aoshikan	China	323	328	1.55%	Know to process large panels
56	Gul Technologies	Singapore	338	316	-6.51%	A small hiccup
57	Redboard	China	280	310	10.71%	HDI and Rgid-Flex
58	CEE PCB	China	251	303	20.72%	Absorbed
59	Guangdong Xinda	China	287	295	2.79%	CPCA data
60	Sun & Lynn	China	268	291	8.58%	Company report
61	Sanmina	USA	280	280	0.00%	Two plant in US, a plant in Singapoer & a plant in Wuxi
62	ASE	Taiwan	255	260	1.96%	IC substrate plants in Kaoshiung and Shanghai
63	APCB	Taiwan	289	256	-11.42%	Emphasis in Thailand
64	Boardtek	Taiwan	246	241	-2.01%	Being purchased by Zhen Ding Technology (ZDT)
65	AbonMax (Palwonn)	Taiwan	234	240	2.56%	Not sure, very shadowy maker (Shenzhen & Suzhou)

66	MFS	Singapore	238	240	0.84%	New plant in
67	DAP	S. Korea	261	232	-11.11%	Have not visited for many years, HDI board maker
68	STEMCO	S. Korea	199	231	16.08%	COF specialist, JV between Samsung & Toray
69	Shirai Denshi	Japan	253	230	-9.09%	VISPER AVI is slow (not included)
70	AKM	China	177	217	22.60%	Paid \$550 million to TTM to get Mobility business
71	Guangzhou Jun Ya	China	162	212	30.84%	CPCA data
72	Ichia*	Taiwan	234	201	-14.10%	Not doing well in recent years
73	Kunshan Huaxing	China	195	199	2.05%	CPCA data
74	Fujitsu	Japan	233	197	-15.45%	Wild guess
75	Delton	China	138	192	39.13%	Not sure about 2018 revenue
76	Guangzhou Kingshine	China	173	192	10.98%	CPCA data
77	Guangdong Chao Hua	China	201	191	-4.98%	CPCA data. Makes laminates as well
78	Circuitronics	China	192	180	-6.25%	Wild Guess
79	Somacis	Italy	177	180	1.69%	Dongguang plant expanding
80	Würth Elektronik	Germany	172	179	4.07%	Steady
81	Kyosha	Japan	193	174	-9.84%	A new plant near Hanoi, Vietnam
82	SZ Sandeguan Prec. Ckt	China	192	173	-9.90%	CPCA data
83	Liang Dar	Taiwan	176	171	-2.84%	Two plants in Kaoshiung and a plant in Dongguang
84	OKI PCB Group	Japan	166	167	0.60%	OKI Printed Circuits and OKI Circuits
85	Shenzhen Sunshine	China	163	166	1.84%	High-end products. Owns a small shop in Germany
86	BYD	China	156	163	4.49%	Wild guess based on 2018 data
87	Huading Group	China	154	162	5.19%	CPCA data
88	SZ Jove Enterprise	China	131	161	22.90%	CPCA data
89	Onpress	China	166	160	-3.61%	Gold plating & automotive
90	Lead-Tech	China	173	159	8.09%	Four plants in China one making COF
91	Daisho Denshi	Japan	168	156	-7.14%	Daisho never laid off employees even during hard time
92	Ji'An Mankun	China	148	155	4.73%	From a friend
93	Tai Hong Ind	Taiwan	180	150	-16.67%	Wild guess. China plant shut down.
94	Tigerbuilder	China	145	150	3.45%	Changing market direction
95	3Win Group	China	141	147	2.25%	Wild guess. Its website does not work.
96	Hyunwoo	S. Korea	127	145	14.17%	Do't know this kaer well.
97	Mutual Tceh	Taiwan	136	144	5.88%	TSE
98	Amphenol PCB Div	USA	130	140	7.69%	Nashua (NH), Guangzhou (FPC) and UK (Invotec)
99	Kunshan Wanzhen PCB	China	131	138	5.34%	CPCA data

Certificates

	Multilayer	DE. S. &S. S
UL	approved	approved
ISO 9001	approved	approved
IATF16949	approved	approved
QC 080000	approved	approved
OHSAS18001	approved	N/A

UL Product iQ

2020/11/12

ZPMV2.E347973 - Wiring, Printed - Component | UL Product iQ

UL Product iQ™



ZPMV2.E347973 - Wiring, Printed - Component

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

HUADING GROUP CO LTD
 12/F, Nanfung Centre
 264-298 Castle Peak Rd
 Tsuen Wan, NT HONG KONG

E347973

Type	Cond Width			SS/ DSO	Max		Max		Meets C UL796 T	I	
	Min	Min	Cond		Area	Solder	Oper	Flame			
	mm(in)	Edge mm(in)	Thk mic(mil)		Diam mm(in)	Limits C sec	Temp C	Class DSR			
Metal Base multilayer Printed Wiring Boards.											
HD-MC16	0.076 (0.003)	0.23 (0.009)	12 (0.47) Int:35	SS	76.2 (3.0)	288	10	105	V-0	All	*
HD-MC17	0.076 (0.003)	0.076 (0.003)	12 (0.47) Int:36	DS	76.2 (3.0)	288	10	90	V-0	-	-
Metal Base Single Layer Printed Wiring Boards with Flammability Only Recognition.											
HD-MC04	-	-	-	SS	-	288	10	-	V-0	-	-
Metal-based printed wiring boards, flammability only Recognition.											
HD-MC05	-	-	-	SS	-	260	30	-	V-0	-	-
Multilayer metal base printed wiring boards..											
HD-MC12	0.16 (0.006)	0.48 (0.019)	30 (1.18) Int:102	SS	25.4 (1.0)	288	60	130	V-0	All	*
Multilayer printed wiring boards.											
HD-03	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:35	DS	25.4 (1.0)	260	10	105	V-0	All	-
HD-M03	0.1 (0.004)	0.2 (0.008)	17 (0.67) Int:35	DS	25.4 (1.0)	280	5	130	V-0	All	*
HD-M05	0.076 (0.003)	0.23 (0.009)	17 (0.67) Int:34	DS	76.2 (3.0)	280	30	130	V-0	-	-
HD-M06	0.11 (0.004)	0.25 (0.010)	17 (0.67) Int:68	DS	25.4 (1.0)	280	5	130	V-0	All	*



HD-M07	0.076 (0.003)	0.23 (0.009)	17 (0.67) Int:34	DS	76.2 (3.0)	280	30	130	V-0	-	-
HD-M09	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:70	DS	76.2 (3.0)	288	10	110	V-0	-	*
HD-M10	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:70	DS	76.2 (3.0)	288	10	105	V-0	-	*
HD-M11	0.20 (0.008)	0.60 (0.024)	17 (0.67) Int:34	DS	76.2 (3.0)	288	10	105	V-0	-	*
HD-M12	0.23 (0.009)	0.23 (0.009)	12 (0.47) Int:68	DS	76.2 (3.0)	288	10	130	V-0	All	3
HD-M13	0.076 (0.003)	0.23 (0.009)	17 (0.67) Int:70	DS	76.2 (3.0)	288	10	130	V-0	-	*
HD-M14	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:70	DS	76.2 (3.0)	288	10	105	V-0	All	*
HD-M15	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:70	DS	76.2 (3.0)	288	10	130	V-0	-	*
HD-M16	0.1 (0.004)	0.3 (0.012)	17 (0.67) Int:68	DS	20 (0.8)	288	30	130	V-0	All	*
HD-M17	0.1 (0.004)	0.3 (0.012)	18 (0.71) Int:68	DS	20 (0.8)	288	30	130	V-0	All	*
HD-M18	0.076 (0.003)	0.23 (0.009)	12 (0.47) Int:102	DS	76.2 (3.0)	288	30	130	V-0	▲	*
HD-M19	0.24 (0.009)	0.72 (0.028)	68 (2.68) Int:204	DS	76.2 (3.0)	288	30	130	V-0	All	*
HD-M20	0.075 (0.003)	0.2 (0.008)	17 (0.67) Int:70	DS	50.8 (2.0)	288	20	110	V-0	All	*
HD-M21	0.15 (0.006)	0.25 (0.010)	17 (0.67) Int:70	DS	50.8 (2.0)	288	20	130	V-0	All	*
HD-M22	0.1 (0.004)	0.1 (0.004)	12 (0.47) Int:70	DS	50.8 (2.0)	288	20	130	V-0	All	*
HD-M23	0.15 (0.006)	0.45 (0.018)	17 (0.67) Int:34	DS	50.8 (2.0)	288	20	130	V-0	All	0
HD-M24	0.08 (0.003)	0.24 (0.009)	17 (0.67) Int:34	DS	25.4 (1.0)	260	10	130	V-0	All	*
HD-M25	0.08 (0.003)	0.08 (0.003)	17 (0.67) Int:34	DS	25.4 (1.0)	280	10	130	V-0	All	*
HD-M26	0.08 (0.003)	0.24 (0.009)	17 (0.67) Int:102	DS	76.2 (3.0)	288	20	130	V-0	All	*
HD-M27	0.08 (0.003)	0.08 (0.003)	12 (0.47) Int:70	DS	25.4 (1.0)	288	10	130	V-0	All	*
HD-M28	0.35 (0.014)	0.35 (0.014)	17 (0.67) Int:175	DS	50.8 (2.0)	255	5	130	V-0	All	*

HD-M29	0.25 (0.010)	0.3 (0.012)	17 (0.67) Int:212	DS	50.8 (2.0)	288	10	130	V-0	All	*
HD-M30	0.25 (0.010)	0.3 (0.012)	17 (0.67) Int:212	DS	50.8 (2.0)	288	10	130	V-0	All	*
HD-M31	0.08 (0.003)	0.24 (0.009)	17 (0.67) Int:34	DS	50.8 (2.0)	260	10	130	V-0	All	*
HD-M32	0.08 (0.003)	0.1 (0.004)	17 (0.67) Int:60	DS	50.8 (2.0)	288	20	130	V-0	All	4
HD-ML6	0.075 (0.003)	0.1 (0.004)	17 (0.67) Int:44	DS	25.4 (1.0)	288	10	130	V-0	All	*
HD-ML8	0.1 (0.004)	0.2 (0.008)	17 (0.67) Int:170	DS	25.4 (1.0)	280	5	130	V-0	All	*
Multilayer printed wiring boards, flammability only Recognition.											
HD-M01	-	-	-	DS	-	288	10	-	V-0	-	-
HD-M04	-	-	-	DS	-	288	10	-	V-0	-	-
Single Layer Metal Base Printed Wiring Board.											
HD-MC07	0.15 (0.006)	0.25 (0.010)	34 (1.34)	SS	50.8 (2.0)	280	30	110	V-0	All	*
HD-MC09	0.13 (0.005)	0.3 (0.012)	17 (0.67)	SS	50.8 (2.0)	288	30	110	V-0	All	0
HD-MC10	0.1 (0.004)	0.25 (0.010)	17 (0.67)	SS	50.8 (2.0)	288	10	110	V-0	All	0
HD-MC11	0.1 (0.004)	0.25 (0.010)	17 (0.67)	SS	50.8 (2.0)	288	10	130	V-0	All	0
HD-MC18	0.15 (0.006)	0.25 (0.010)	17 (0.67)	DS	50.8 (2.0)	288	10	90	V-0	All	*
HD-MC19	0.15 (0.006)	0.25 (0.010)	17 (0.67)	DS	50.8 (2.0)	288	10	110	V-0	All	*
Single Layer Metal Base Printed Wiring Board, employing metal base laminate with Flammability Only Recognition.											
HD-ML16	-	-	-	SS	-	288	20	-	V-0	-	-
Single Layer Metal Base Printed Wiring Board, employing metal base laminate..											
HD-MC06	0.19 (0.007)	0.24 (0.009)	26 (1.02)	SS	50.8 (2.0)	288	20	125	V-0	-	-
Single Layer Metal Base Printed Wiring Board..											
HD-MC08	0.1 (0.004)	0.3 (0.012)	17 (0.67)	SS	50.8 (2.0)	288	30	90	V-0	-	0

HD-MC20	0.15 (0.006)	0.25 (0.010)	17 (0.67)	DS	50.8 (2.0)	288	10	140	V-0	All	*
Single layer Metal Base printed wiring boards, flammability only Recognition.											
HD-MC03	-	-	-	SS	-	288	10	-	V-0	-	-
Single layer printed wiring boards.											
HD-02	0.12 (0.005)	0.36 (0.014)	17 (0.67)	DS	25.4 (1.0)	260	10	130	V-0	All	-
HD-04	0.14 (0.006)	0.14 (0.006)	35 (1.38)	DS	50.8 (2.0)	260	10	130	V-0	All	*
HD-D01	0.15 (0.006)	0.46 (0.018)	17 (0.67)	DS	203.2 (8.0)	260	10	130	V-0	All	*
HD-D02	0.15 (0.006)	0.46 (0.018)	17 (0.67)	DS	203.2 (8.0)	260	10	130	V-0	All	*
HD-D03	0.22 (0.009)	0.66 (0.026)	17 (0.67)	DS	25.4 (1.0)	270	10	130	V-0	All	-
HD-D04	0.81 (0.032)	1.52 (0.060)	17 (0.67)	DS	20.1 (0.8)	260	10	130	V-0	All	*
HD-D05	0.08 (0.003)	0.23 (0.009)	17 (0.67)	DS	25.4 (1.0)	260	10	130	V-0	-	*
HD-D06	0.11 (0.004)	0.25 (0.010)	17 (0.67)	DS	25.4 (1.0)	280	5	130	V-0	All	*
HD-D07	0.08 (0.003)	0.23 (0.009)	17 (0.67)	DS	25.4 (1.0)	260	10	120	V-0	All	*
HD-D08	0.15 (0.006)	0.45 (0.018)	17 (0.67)	DS	76.2 (3.0)	288	30	130	V-0	All	*
HD-D09	0.08 (0.003)	0.24 (0.009)	17 (0.67)	DS	25.4 (1.0)	260	10	130	V-0	All	*
HD-D16	0.11 (0.004)	0.29 (0.011)	17 (0.67)	DS	25.4 (1.0)	280	5	130	V-0	All	*
HD-D18	0.15 (0.006)	0.45 (0.018)	17 (0.67)	DS	76.2 (3.0)	288	30	130	V-0	-	*
HD-D19	0.18 (0.007)	0.38 (0.015)	34 (1.34)	SS	25.4 (1.0)	260	10	130	V-0	All	*
HD-D20	0.18 (0.007)	0.51 (0.020)	34 (1.34)	SS	25.4 (1.0)	260	10	105	V-0	All	*
HD-D21	0.08 (0.003)	0.23 (0.009)	17 (0.67)	DS	25.4 (1.0)	260	10	130	V-0	All	*
HD-D22	0.08 (0.003)	0.23 (0.009)	34 (1.34)	SS	25.4 (1.0)	260	10	130	V-0	▲	*
HD-D23	0.08 (0.003)	0.23 (0.009)	17 (0.67)	DS	25.4 (1.0)	260	10	130	V-0	All	*
HD-D24	0.08 (0.003)	0.24 (0.009)	17 (0.67)	DS	50.8 (2.0)	260	10	130	V-0	All	*
HD-D25	0.08 (0.003)	0.24 (0.009)	17 (0.67)	DS	25.4 (1.0)	280	10	130	V-0	All	*
Single Layer Printed Wiring Boards.											
HD-D26	0.15 (0.006)	0.15 (0.006)	17 (0.67)	DS	50.8 (2.0)	288	20	130	V-0	-	*
HD-D27	0.15 (0.006)	0.15 (0.006)	17 (0.67)	DS	50.8 (2.0)	288	20	105	V-0	-	*
HD-D28	0.15 (0.006)	0.15 (0.006)	34 (1.34)	DS	50.8 (2.0)	288	20	105	V-0	-	-
Single layer printed wiring boards.											
HD-D29	0.076 (0.003)	0.076 (0.003)	17 (0.67)	DS	50.8 (2.0)	288	10	130	V-0	All	*
HD-D30	0.2 (0.008)	0.58 (0.023)	34 (1.34)	SS	25.4 (1.0)	260	10	130	HB	▲	*

Single Layer Printed Wiring Boards.											
HD-D31	0.125 (0.005)	0.125 (0.005)	27 (1.06)	DS	50.8 (2.0)	288	20	105	V-0	-	*
HD-D32	0.1 (0.004)	0.2 (0.008)	17 (0.67)	DS	50.8 (2.0)	288	20	130	V-0	All	*
Single layer printed wiring boards.											
HD-D56	0.075 (0.003)	0.1 (0.004)	17 (0.67)	DS	25.4 (1.0)	288	10	130	V-0	All	*
HD-S01	0.20 (0.008)	0.48 (0.019)	35 (1.38)	SS	25.4 (1.0)	260	10	130	V-1	All	-
HD-S02	0.20 (0.008)	0.48 (0.019)	35 (1.38)	SS	25.4 (1.0)	260	10	130	V-0	All	-
HD-S06	0.22 (0.009)	0.66 (0.026)	34 (1.34)	SS	25.4 (1.0)	260	10	130	V-0	All	-
HD-S16	0.22 (0.009)	0.66 (0.026)	34 (1.34)	SS	25.4 (1.0)	270	10	130	V-0	All	-
Single Layer Printed Wiring Boards Flammability Only Recognition.											
HD-D17	-	-	-	DS	-	288	20	-	V-0	-	*
Single layer printed wiring boards, flammability only Recognition.											
HD-01	-	-	-	DS	-	288	15	-	V-0	-	-
HD-D10	-	-	-	DS	-	280	10	-	V-0	-	-
HD-D11	-	-	-	DS	-	280	10	-	V-0	-	-
HD-D12	-	-	-	DS	-	280	10	-	V-0	-	-
HD-D13	-	-	-	DS	-	280	10	-	V-0	-	-
HD-D14	-	-	-	DS	-	280	10	-	V-0	-	-
HD-D15	-	-	-	DS	-	260	10	-	V-0	-	-
HD-S07	-	-	-	SS	-	260	10	-	V-0	-	-
HD-S08	-	-	-	SS	-	260	10	-	V-0	-	-
HD-S09	-	-	-	SS	-	260	10	-	V-0	-	-

* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or trademark   or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

Last Updated on 2020-06-09

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2020 UL LLC"

UL Product iQ™



ZPXK2.E484912 - Wiring, Printed - Flexible Material Constructions - Component

Wiring, Printed - Flexible Material Constructions - Component


See General Information for Wiring, Printed - Flexible Material Constructions - Component

HUADING GROUP CO LTD
12/F, Nanfung Centre
264-298 Castle Peak Rd
Tsuen Wan, NT HONG KONG

E484912

Type	Cond Width		Cond Thk DSO	SS/ Diam	Max		Solder Limits C sec	Max Oper Temp C	Flame Class	Meets UL796F DSR	C T	I
	Min	Max			Area	Oper						
	mm(in)	mm(in)			mm ² (in ²)	sec						
Multilayer flexible materials interconnect constructions, Flammability Recognition only.												
HD-FM03	-	-	-	DS	-	288	10	-	V-0	-	-	-
HD-FM04	-	-	-	DS	-	288	10	-	V-0	-	-	-
HD-FM05	-	-	-	DS	-	288	10	-	V-0	-	-	-
Multilayer flexible materials interconnect constructions, for rigid-flex application.												
HD-FM02	0.07 (0.003)	0.07 (0.003)	12 (0.47) Int:35	DS	50.8 (2.0)	288	10	105	V-0	-	-	-
Multilayer Rigid Flexible Materials Interconnect Constructions.												
HD-FM01	0.08 (0.003)	0.08 (0.003)	9 (0.35) Int:17	DS	50.8 (2.0)	288	10	105	V-0	-	-	-
Single layer Flex-to-Install, Flexible Materials Interconnect Constructions.												
HD-F06	0.07 (0.003)	0.15 (0.006)	12 (0.47)	DS	25.4 (1.0)	280	10	105	V-0	▲	-	-
Single layer flexible materials interconnect constructions.												
HD-F11	-	-	-	DS	-	288	10	-	VTM-0	-	-	-
HD-F12	-	-	-	DS	-	288	10	-	V-0	-	-	-
Single layer flexible materials interconnect constructions, Flammability Recognition only.												

HD-F01	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F02	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F03	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F04	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F05	-	-	-	DS	-	288	10	-	VTM-0	-	-
HD-F07	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F08	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F09	-	-	-	DS	-	288	10	-	V-0	-	-
HD-F10	-	-	-	DS	-	288	10	-	V-0	-	-

Marking: Company name or trademark  or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

Last Updated on 2019-08-30

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2020 UL LLC"

Railway PCB Application Certificate



Test Report

No. AJFS1810010494FF

Date: NOV.01, 2018

Page 1 of 3

HUADING GROUP CO., LIMITED

UNIT D,WORLD TRADE CENTRE, NO.122 SHUGUANG ROAD, HANGZHOU CITY, ZHEJIANG PROVINCE,
THE PEOPLE'S REPUBLIC OF CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description: PRINTED CIRCUIT BOARDS

SGS Ref No.: SHIN1810075761SC

Style/Item No.: /

Product Specification: FR4 PCB

Product or Lot No.: FR4 PCB

Test Requested:

EN 45545-2:2013+A1:2015 Railway applications— Fire protection on railway vehicles Part 2: Requirements for fire behaviour of materials and components, R24

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : OCT.24, 2018

Test Performing Date : OCT.24, 2018 TO OCT.29, 2018

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou
Technical Manager



SGS-CSTC
Anji Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
overleaf, available on request or accessible at <http://www.sgs.com/en/terms-and-conditions.aspx> and, for electronic format documents,
subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-e-document.aspx>.
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is
advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of
Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a
transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced
except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or
appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the
results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8397
1443, or email: CSB.Doccheck@sgs.com

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 501825 f (86-572) 501829 www.sgs.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 501825 f (86-572) 501829 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

No. AJFS1810010494FF

Date: NOV.01, 2018

Page 2 of 3

I. Description of Test specimens

Sample Description	PCB
Color	Green
Type	III
Size of sample	Length 90mm Width 10mm Thickness 1.6mm

II. Summary of test results

Short name of requirement set (used for)	Test method reference	Parameter Unit	Test results *
R24	T01 EN ISO 4589-2 OI	Oxygen content %	>60

* For the test details, please see the appendix of this test report.

III. Conclusion

According to the test results, the submitted sample **meets** the requirements of **R24** (detailed in Table 5 of EN 45545-2:2013+A1:2015) for a **HL3** Hazard Level Classification.

Test Criteria, EN 45545-2:2013+A1:2015, Table 5, Material requirement sets, R24

Short name of requirement set (used for)	Test method reference	Parameter Unit	Requirement Definition	HL1	HL2	HL3
R24	T01 EN ISO 4589-2 OI	Oxygen content %	Minimum	28	28	32

Statements:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which were tested.

The specimen was supplied by the sponsor and SGS-CSTC ANJI Branch was not involved in any selection or sampling procedure.

To be continued...



SGS-CSTC
Anji Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/zh/zh/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/zh/zh/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Docscheck@sgs.com
No.301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编:313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

No. AJFS1810010494FF

Date: NOV.01, 2018

Page 3 of 3

APPENDIX: T01 EN ISO 4589-2:2017 Determination of burning behaviour by oxygen Index Part 2:

Ambient temperature test

1. Conditioning

T: 23±2°C, R.H: 50±5%, at least 88 h.

2. Test results

- Select initial oxygen concentration (in accordance with 8.2.3): 40%
- Determining the Preliminary Oxygen Concentration (Till pair of oxygen concentrations which gives opposite response differs by ≤1%, in accordance with 8.6)

Oxygen concentration, % (V/V)	40	45	50	55	60	61		
Length burnt, (mm)	<50	<50	<50	<50	<50	<50		
Response, ("X" or "O")	O	O	O	O	O	O		

Oxygen concentration of the "O" response for the pair = % (this is the concentration to be used again for the first measurement in section below)

OI >60% (V/V).

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



SGS-CSTC
Anji Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/zh/zh/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/zh/zh/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Docscheck@sgs.com
No.301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编:313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

IMDS Global PCB Data For Automotive Applications

ZHOU, RONG
HUADING GROUP CO.,LTD. [193434]

MATERIAL DATA SYSTEM

MDS - Functions - Administration - Help

MDS/Module Search | Ingredients | Supplier Data | Recipient data | Analysis | MDS Request

Name, ID, Version, Date

Name:

Part/Item No., Item- /Mat.-No., Material No.:

ID: Current versions ▾

Preliminary MDS:

Date: published / accepted / internally released
 created

from: to:

Supplier MDSs, Own MDSs/Modules

accepted MDSs published MDSs own MDSs own Modules

Enable search by supplier

Supplier	Company- / Org.- ID
Supplier search is disabled.	

last edited by me

Assigned Org Unit:

Assigned Contact:

View | Menu | Export

Type	Name	Part/Item No., Item- /Mat.-No., Material No.	ID / Version	Supplier
	470 211 010_01_OZD451-09-C	P2L-12926A1	917836847 / 1	HUADING GROUP CO.,LTD.
	49400101003_OZD451_02_C	P2L012925A1	918885404 / 1	HUADING GROUP CO.,LTD.
	498100010-_OZD-451-01-C	P2L012927A1	920244034 / 1	HUADING GROUP CO.,LTD.
	500011010_04_OZD451-19.1-C	P2L012932A1	917436102 / 1	HUADING GROUP CO.,LTD.
	713001010 01_OZD451-05-C	P2L12929A1	920278602 / 1	HUADING GROUP CO.,LTD.
	795101010-01_REV1_OZD451-20.1-C	P2L012924A1	920317037 / 1	HUADING GROUP CO.,LTD.
	Carbon Paste	CCI-301F	917852086 / 1	HUADING GROUP CO.,LTD.
	CM	-	762470705 / 1	HUADING GROUP CO.,LTD.
	Component_917409357	-	917409357 / 0.01	HUADING GROUP CO.,LTD.
	Component_917419393	-	917419393 / 0.01	HUADING GROUP CO.,LTD.
	Component_917425032	-	917425032 / 0.01	HUADING GROUP CO.,LTD.
	Copy_TOFAS LED BOX 753000010/01_OZD451-30	-	907964203 / 1	HUADING GROUP CO.,LTD.
	FR-4	-	762473552 / 1	HUADING GROUP CO.,LTD.
	Immersion Gold	-	907093138 / 1	HUADING GROUP CO.,LTD.
	OTOKAR-TFT-GERBER-OZD451-13-C	P2L012929A1	918948226 / 1	HUADING GROUP CO.,LTD.
	PCB	OZD859-01.2	762480023 / 1	HUADING GROUP CO.,LTD.
	Plating	-	762473025 / 1	HUADING GROUP CO.,LTD.
	Printed Circuit Boards	OZD859-01.2	761043931 / 0.01	HUADING GROUP CO.,LTD.
	Printed Circuit Boards	OZD859-01.2	761046303 / 0.01	HUADING GROUP CO.,LTD.
	Solder mask	9112	762455105 / 1	HUADING GROUP CO.,LTD.
	TIN	-	762475522 / 1	HUADING GROUP CO.,LTD.

Rows Selected: 1 | Total records found: 24

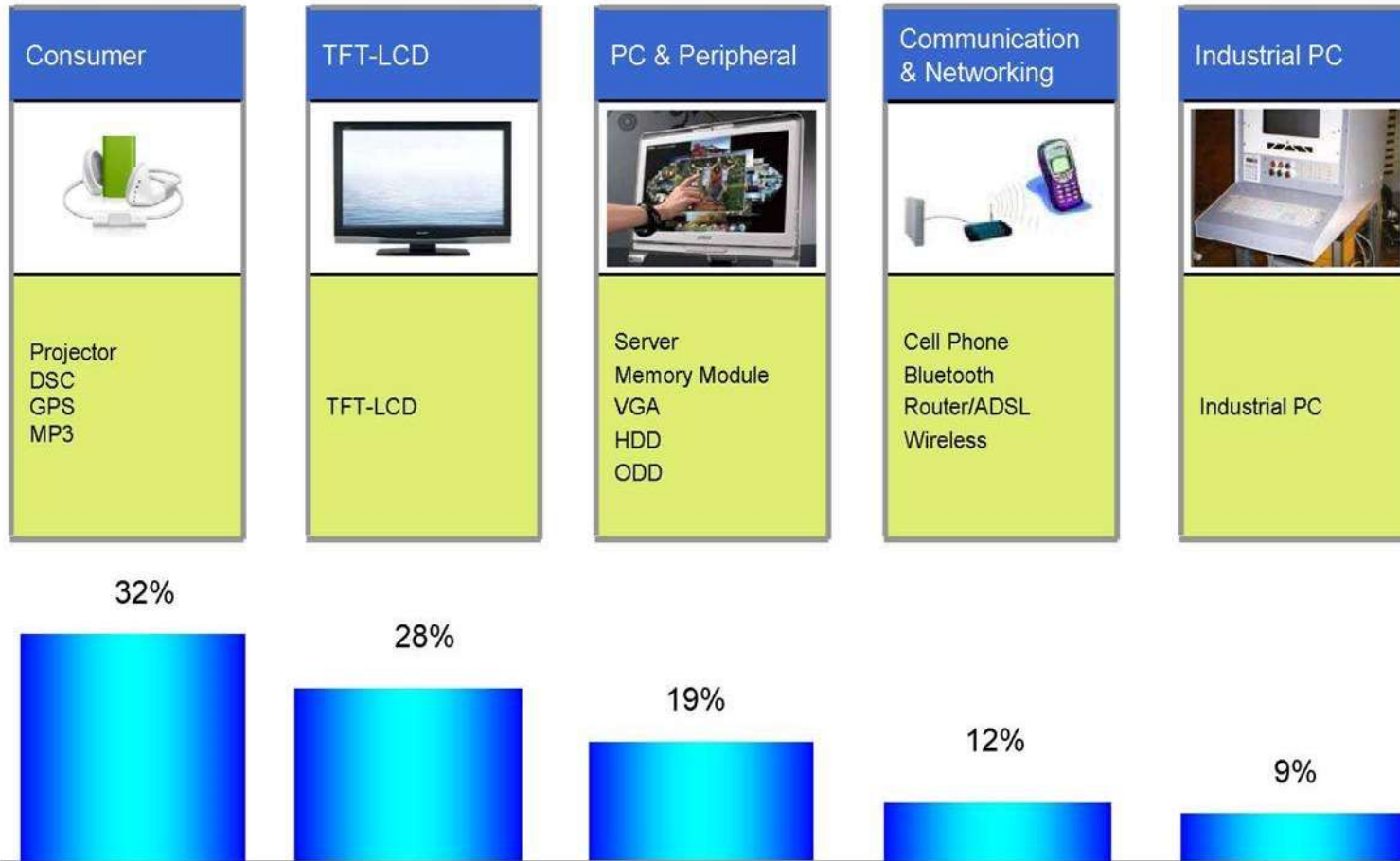
Manufacturing Sites - Anhui

Capital : USD6M(RMB37.8M)
Assessment: USD12M(RMB75.6M)
Plant Area : 172K SqFt
Floor Area : 269K SqFt
Capacity : 300K SqFt/MTH(conventional)
Capacity : 600K SqFt/MTH
Employee : 800
Feature : STH



Anhui Plant

Manufacturing Sites – Product Mix



Manufacturing Sites - Jiangsu

Capital : USD 6.5M(RMB40.95M)

Assessment : USD 261M(RMB164M)

Plant Area : 280K SqFt

Floor Area : 452K SqFt

Capacity : 6,500k SqFt/MTH(conventional)
(Outer Layer) 300K SqFt/MTH(HDI)

Capacity : 1,000K SqFt/MTH
(Inner Layer)

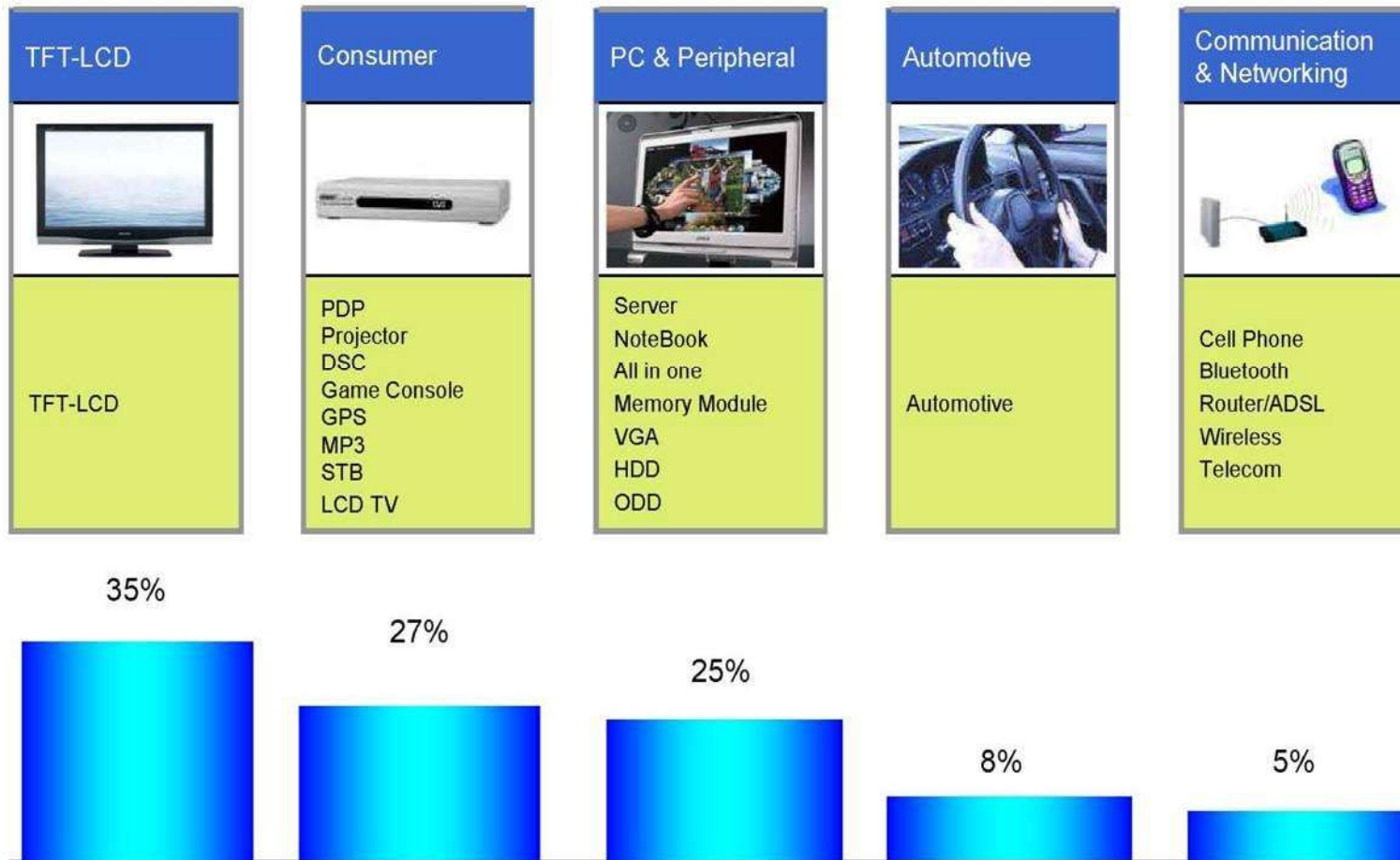
Employee : 860

Feature : High Volume Production



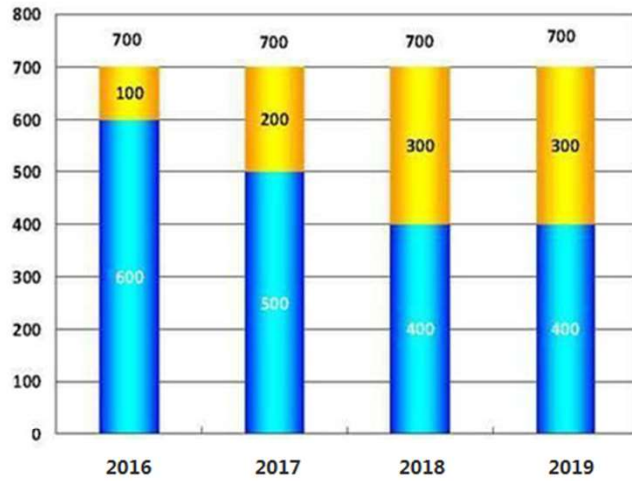
Jiangsu Plant

Manufacturing Sites – Jiangsu Product Mix



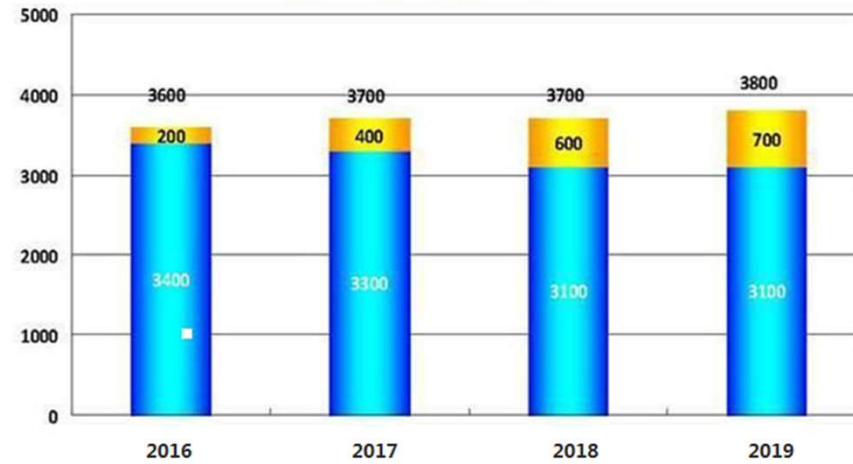
Capacity Plan

Anhui Factory

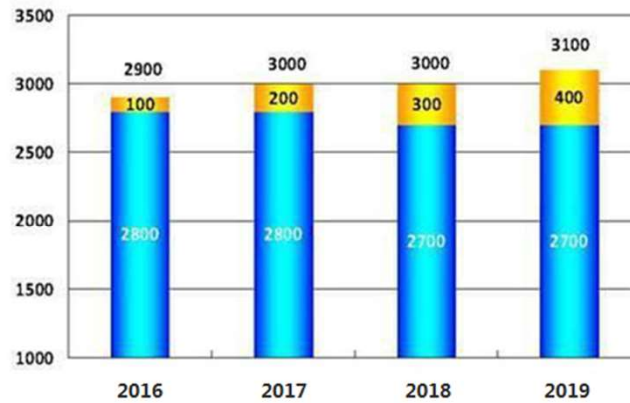


■ Conventional
 ■ HDI

Total Capacity Expansion



JiangSU Factory



(K SqFt/MTH)





Technology Overview

Technical Roadmap

Unit: mil	2016	2017	2018	2019	2020	2021
Build Up Structure	Any Layer/ 10 Layers	Any Layer/ 12 Layers	Any Layer/ 14 Layers	Any Layer/ 16 Layers	Any Layer/ 18 Layers	Any Layer/ 20 Layers
PCB Thickness (min./max.)	16/128	14/128	12/128	12/130	12/130	12/130
Min.IL-core Thickness	2	2	1.8	1.6	1.6	1.6
Min.Line Width/space- inner Layer	2.4/2.4	2.2/2.2	2/2	1.8/1.8	1.6/1.6	1.6/1.6
Min.Line Width/space- Outer Layer	2.4/2.4	2.2/2.2	2/2	1.8/1.8	1.6/1.6	1.6/1.6
Min.Laser Via/pad	6/10	5/9	4/8	3/6	3/6	3/6
BAG/Ball Pitch	18	16	14	12	12	12
Min. S/M Clearance(mm)	1.5	1.4	1.3	1.2	1.0	1.0
SMD (Define Pad)	6	6	5	5	5	5
Impedance	+/-8%	+/-7%	+/-7%	+/-7%	+/-6%	+/-6%
	Material/Innovation					
Material	Low DK, Low DF, Low CTE, Metal Core, Thin Dielectric, Ceramin(High Frequency)					
Innovation	Filling Copper Vias, Capped Vias, Flex With Flying Leads, Embedded Copper Coins, Heat Sinks, Planar Transformer, Burried Componets					


HDI Capability Overview

Description		2016	2017	2018	2019	2020	2021
Copper Filled Via / Stagger Via	 Min. Via Diameter (mil)	4	3	2.8	2.8	2.4	2.4
	Min.L1 Capture Pad(mil)	D+5	D+4	D+3.2	D+3.2	D+2.4	D+2.4
	 Min.L2 Capture Pad(mil)	D+5	D+4	D+3.2	D+3.2	D+2.4	D+2.4
	Min.L3 Capture Pad(mil)	D+5	D+4	D+3.2	D+3.2	D+2.4	D+2.4
	Aspect Ratio	0.8	1.0	1.0	1.2	1.2	1.2

PCB Finish

	Anhui	Jiangsu
HASL	available	available
Lead-Free HASL	available	available
OSP	available	available
Immersion Silver	available	available
Immersion Tin	available	available
ENIG(Selective ENIG)	available	available
Hard Gold/Soft Gold	available	N/A
Gold Finger	available	available

Partners (suppliers)



Trust, Hardwork, Warmth

GRACE T.H.W. GROUP

NO.2 YUNPU 1ST RD., YUNPU (BAIFU),
INDUSTRIAL ZONE, LIU-GANG, GUANGZHOU, CHINA
TEL: 86-20-82248288 FAX: 86-20-82241225
1F 2, 307 TUNG HWA N. RD., TAIPEI, TAIWAN
TEL: 886-2-27191341 FAX: 886-2-27128372

Winston Wong ARCS DIC PHD.
Chairman

李榮堅
Wingkin Li


Technical Service Manager, Asia Pacific,
Advanced Dielectric Division
China +86 150 1780 1483
HK +852 6060 1483
E-mail: wingkinli@tacnic.co.kr

李榮堅 亞太區技術服務經理
中國電話 +86 150 1780 1483
香港電話 +852 6060 1483

TACONIC

http://www.tacnic-add.com

KOREA TACONIC CO., LTD.
5/F, Woon Bldg, 361-13, Yatap-dong, Bundang-gu
Sungnam-si, Kyunggi-do, KOREA
Tel: 82-31-704-1858 Fax: 82-31-704-1857



Thomas Lin

SALES REPRESENTATIVE SALES SECTION
DGL DIVISION

ETERNAL CHEMICAL CO., LTD.

578, CHIEN-KUNG RD.
KAOHSIUNG, TAIWAN, 807, R. O. C.
TEL: 886-7-3896181 EXT: 567
FAX: 886-7-3834448
E-mail: nanhu_lin@eternal-group.com



陳定台
南亞電子材料(昆山)有限公司
董事長 陳定台

ADD: 以蘇州昆山市長江路201號
Tel: 0512-57117080 Ext. 3180 Post. No. 215300
Mobile: 13771175795 Fax: 0512-57349018
E-mail: Tiger@veya.cl.com.cn

Tiger Chen
Director, Sales & Marketing

**NAN YA ELECTRONIC MATERIALS
(KUNSHAN) CORP., LTD.**
251 CHANGJIANG ROAD, JIANGSU ECONOMIC &
TECHNICAL DEVELOPMENT ZONE, JIANGSU, CHINA

KB KINGBOARD CHEMICAL HOLDINGS LIMITED
INCORPORATED IN THE CAYMAN ISLANDS WITH LIMITED LIABILITY

1350969898
PHILIP CHEUNG
Director

5/F, Block K, Yuhang Industrial Centre, 2-12 Au Pui Wan Street,
Tso Tse, Shatin, New Territories, Hong Kong
Tel: 2925 6493
Fax: 3491 5245, 3491 0445
Mobile: 9037 3555
Web site: http://www.kingboard.com

isola

Bernard Qiu
Microwave Technical
Sales Manager

Isola Asia Pacific (Malaysia) Company Limited
No. 158 Hupang Road, Hutan Tuah,
Selat County, Malacca City, Darang Deng Pres.,
PRC 518138

Tel: (86-752) 6302222 Fax: (86-752) 6302163
Cell: (86) 13923740890 E-mail: Bernard.Qiu@isola-group.com
Website: www.isola-group.com

Panasonic
Ideas for life




Wu Lai Sen
M. Sales Dept.
Deputy General Manager

Panasonic Industrial Devices
Materials (Suzhou) Co., Ltd
Add: No. 1 Huan Hui Street, Suzhou New
District, Suzhou, China
Post: 215011
TEL: (05) 26825271
FAX: (05) 26824890-902
Mobile: 1366215995
E-mail: wulaisen@cn.panasonic.com

苏州生益科技有限公司
SUZHOU SHENGYI SCI. TECH CO., LTD.

闻殿辉 客户经理
Account Manager

地址: 苏州工业园区星洲街288号 E-mail: wendanhui@syzt.com.cn
Add: No. 288 Xingzhou St. Suzhou Industrial park http://www.szsyzt.com
电话(Tel): 0506-512-82833188 x 2106 手机(Mobile): 13912611044
传真(Fax): 0506-512-82833310 邮编(Postcode): 215024



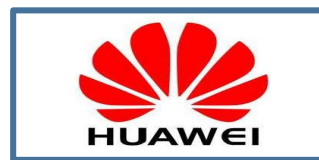
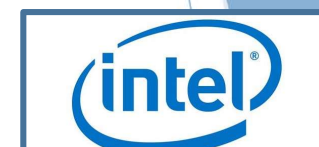
General Manager

Liu Jiao

ZHEJIANG HUAZHENG ELECTRONIC GROUP CO., LTD.

Add No. 1 Baota Industrial Zone Yuhang Hangzhou P.R. China
Tel: 86-571-89652970
Fax: 86-571-89652960
M.T.: 13908819171
E-mail: liu_jiao@huazheng.cn
Http: www.huazheng.net

Main Customers



World Class PCB Solutions

Partnership Bank

THE INDUSTRIAL & COMMERCIAL BANK OF CHINA
HANGZHOU BRANCH
INTERNATIONAL BUSINESS DEPT

Zhou Hui Lian
General Accountant and Manager
International Settlement Division

Add: 7-2 Huansha Rd. Hangzhou China
P.C: 310001
Tel: 7039922
706888-119 120 123 126
Call: 5155111-15549
Fax: 7069861
Telex: 351025 ICBHZ CN
SWIFT: ICBKCNBJHZU
350220 ICBHZ CN

 **中国农业银行股份有限公司**
AGRICULTURAL BANK OF CHINA
杭州艮山支行

余冬梅
行长

地址: 杭州市环城北路65号(财富中心底层)
邮编: 310004 电话: 28906578
手机: 13732256815 QQ群: 117428886

BANK OF CHINA HANGZHOU BRANCH
Int'l Trade Settlement Dept.
Comprehensive Section Assistant Manager

LI YONG MING
Economist

Add: 5 Xiao Nu Road Hangzhou China
Post Code: 310006
Cable: 5290

Tel: 7032288-4142
Telex: 350238 BOCWL CN
Fax: (0571)7022924

 **GUANGDONG DEVELOPMENT BANK**
Offshore Banking Dept.

YAO YONGPING, MICHAEL
Corporate Finance

Add: GUANGDONG DEVELOPMENT BANK
BULDING, No. 83 NONGLENXIA ROAD,
GUANGZHOU P.R. CHINA 510080
Web-site: www.gdb.com.cn
Tel: (8620)87311095 87310888-2720 2728
Fax: (8620)87310500

叶剑明
信贷部经理

 **招商银行 城东支行**
CHINA MERCHANTS BANK CHENGONG BRANCH

地址: 中国, 杭州凤起东路101号 邮编: 310020
电话: (0571)86432477 86432473 传真: 86432470
手机: 13805781019
网上银行: <http://www.hz.cmbchina.com>

 **China Construction Bank**
HANGZHOU QING CHUN SUBBRANCH

WANG RUI

INTERNATIONAL SECTION

Add: 74 Qing Chun Rd. Hangzhou China P.C: 310003
Tel: (0571)7211275 7211309
Telex: 350227 350294
Fax: (0571)7211299

 **杭州市商业银行**
COMMERCIAL BANK OF HANGZHOU

秋涛支行

金吴炬 副行长

地址: 杭州市秋涛北路89-1号 邮编: 310016
电话: (0571)6093883 传呼: 129-8504453

 **华夏银行 杭州分行**
HUAXIA BANK HANGZHOU BRANCH

赵建淳
ZHAO JIAN CHUN
计划信贷处
信贷二科
经理

中国杭州环城西路5号
5 West Huancheng Rd. Hangzhou
电话 Tel: 87078805 87029700 - 2216
传真 Fax: (0571)87071278
电报 BP: 127-8023377
邮编 Postcode: 310006

 **SHANGHAI PUDONG DEVELOPMENT BANK HANGZHOU BRANCH**

Liu Xiao Niu
Vice President

Add: No. 129 Yan An Road Hangzhou
Tel: (0571)7790108
E-mail: liuxn@hz.spdb.com.cn

P.C.: 310002
Fax: (0571)7790100
BP: 129-5019235



感谢

THANK YOU